

Vanity Calls
Now Available!
Details Inside!

\$3.75

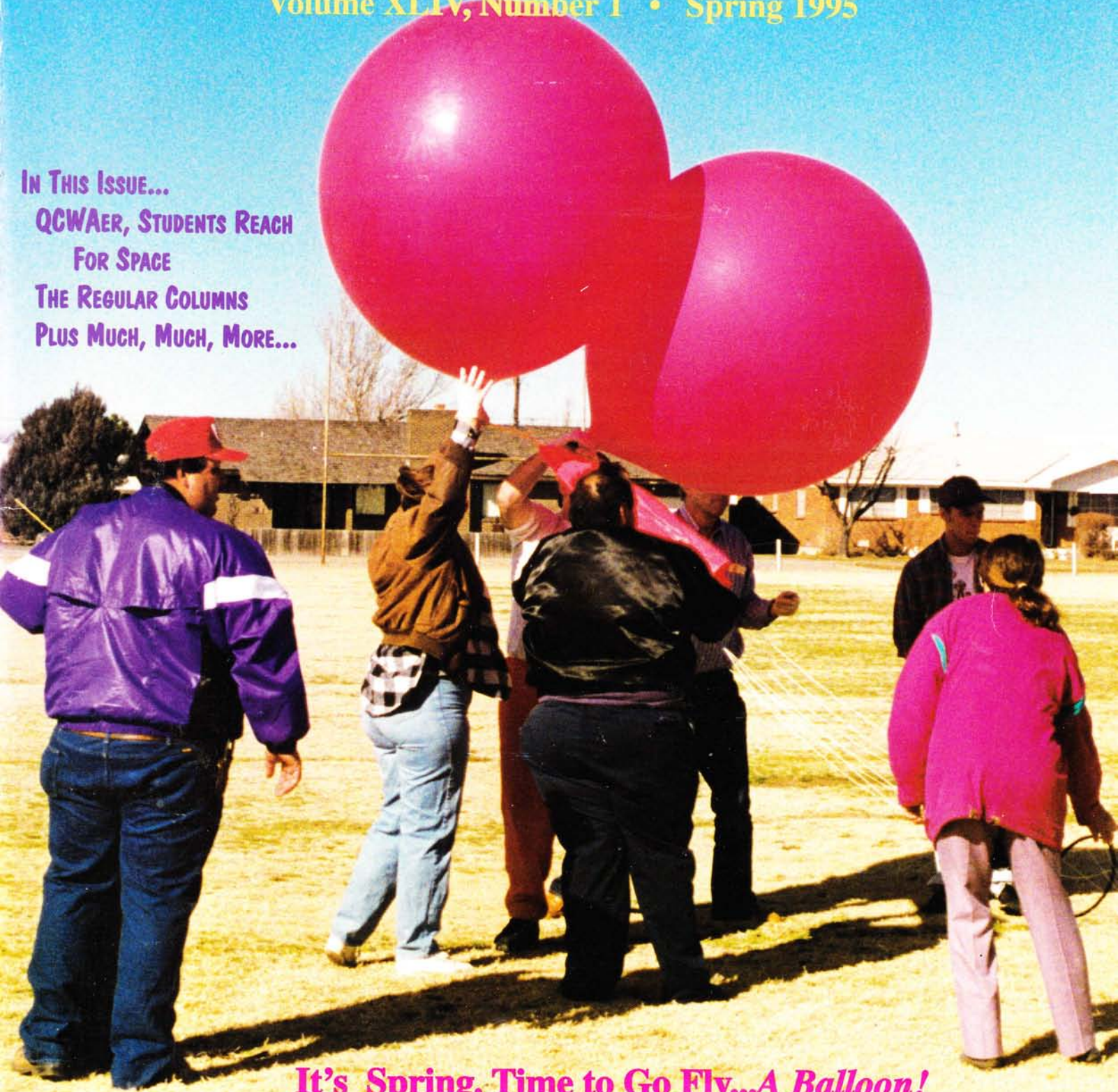
QCWA JOURNAL

Volume XLIV, Number 1 • Spring 1995

IN THIS ISSUE...

**QCWAER, STUDENTS REACH
FOR SPACE**

**THE REGULAR COLUMNS
PLUS MUCH, MUCH, MORE...**



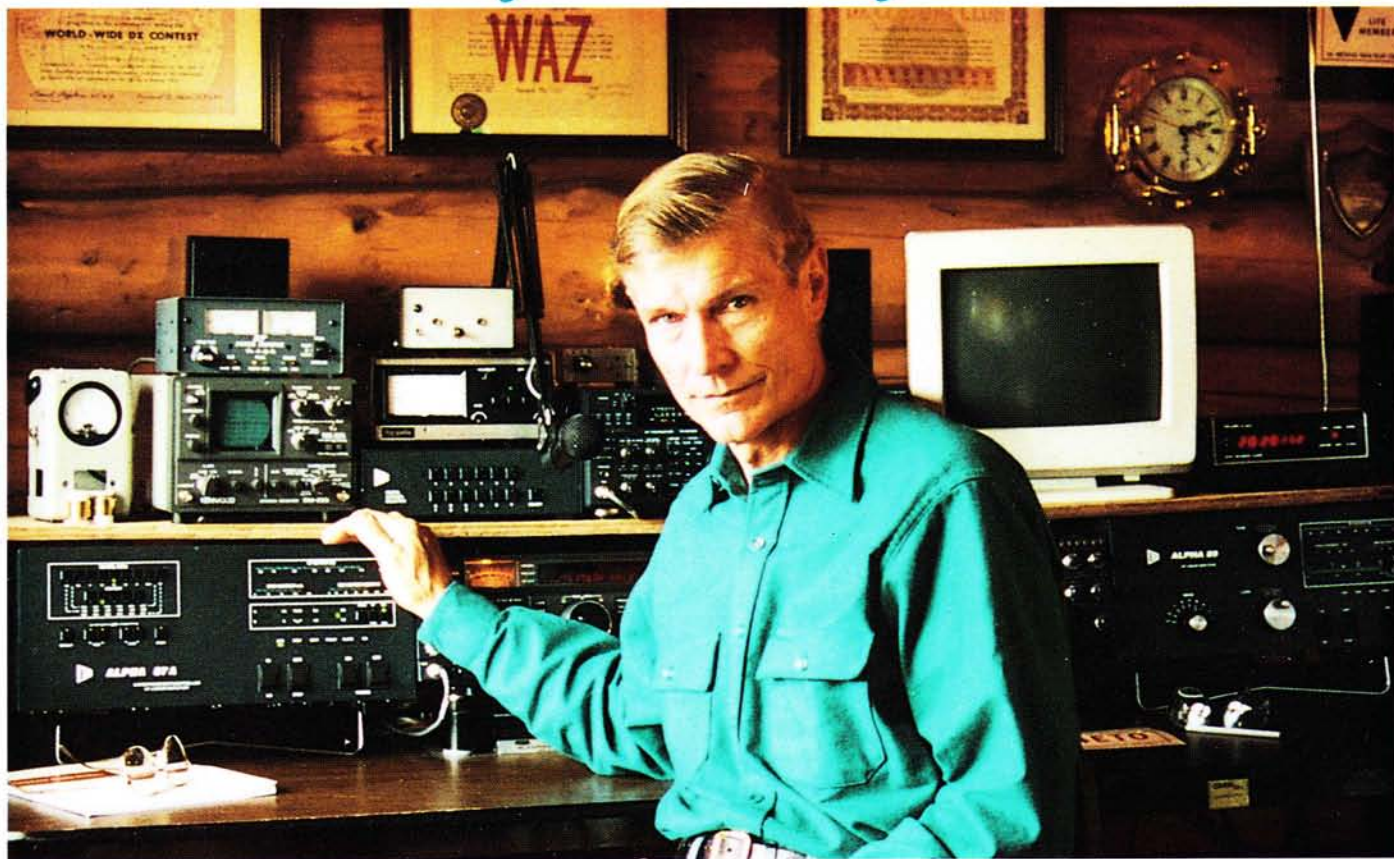
It's Spring. Time to Go Fly...A Balloon!

Quarter Century Wireless Association
P.O. Box 73
Oklahoma City, OK 73101-0073

ADDRESS CORRECTION REQUESTED

NON PROFIT ORG.
U.S. POSTAGE
PAID
OKLAHOMA CITY, OK
PERMIT NO. 2382

Don't let anyone kid you...



Dick Ehrhorn, W4ETO

Nothing else is even close to an ALPHA 87A!

I guarantee* it'll spoil you for any other amplifier!

The ALPHA 87A gives you both...

- 1.5 kW RF output, "locked-key all day"
—same average and reserve power as the famous ALPHA 77Dx!
and
- fully automatic, one-second bandchange with any amateur transceiver.

No other maximum legal power HF amp gives you bandchanging that's *either* near-instantaneous *or* automatic. And even the 500-1000 watt solid state amplifiers can't change bands automatically with *all* transceivers.

Why not enjoy a new ALPHA 87A yourself? It will put new fun and efficiency into your operating and spoil you for any other amplifier...or your money back! *Ask for a copy of ETO's 30 day money-back guarantee.

The ALPHA 87A truly is in a class by itself. Its complement of exclusive and practical features is too lengthy to describe here. Two examples:

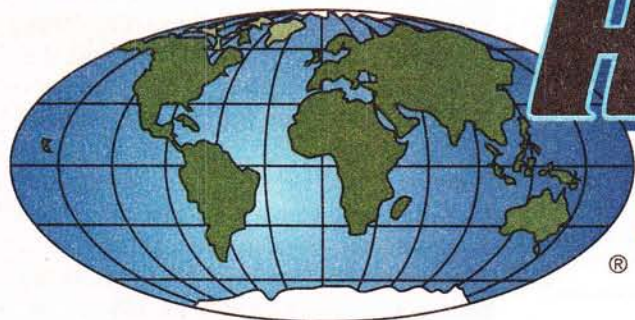
- Microprocessor-based protection - "(it's) practically impossible to damage an '87A through improper operation." (QST, 6/92)
- Full computer control, local or remote via telephone or radio.

For more details, get ETO's "home video," *The Ultimate Linear*. In it, W4ETO informally demonstrates many of the '87A's remarkable capabilities that owners have called "great," "fantastic," "incredible!" The video is \$12 postpaid.

Call Ray Heaton now to order for quick delivery. Or to ask for *The Ultimate Linear* video and a full color brochure.

ETO EHRHORN TECHNOLOGICAL OPERATIONS, INC.
4975 North 30th Street ■ Colorado Springs, CO 80919 ■ (719) 260-1191 ■ FAX (719) 260-0395

> 12 STORE BUYING POWER! <



HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

YAESU
Coupons
Good Thru April 15th

Phone Hours:

9:30 AM to 5:30 PM

Store Walk-In Hours:

10:00 AM - 5:30 PM • Closed Sundays

CALL TOLL FREE:

West 1-800-854-6046
Mountain 1-800-444-9476
Southeast 1-800-444-7927
Mid-Atlantic 1-800-444-4799
Northeast 1-800-644-4476
New England 1-800-444-0047

Toll free, incl. Hawaii, Alaska, Canada; call routed to nearest store; *all HRO 800-lines can assist you, if the first line you call is busy, you may call another.*

Call/Write for your HRO Catalog!

ANAHEIM, CA 92801
933 N. Euclid St.
(714) 533-7373
(800) 854-6046
Janet, WA7WMB, Mgr.
Near Disneyland

OAKLAND, CA 94606
2210 Livingston St.
(510) 534-5757
(800) 854-6046
Mach, K6KAP, Mgr.
I-880 at 23rd Ave. ramp

SAN DIEGO, CA 92123
5375 Kearny Villa Rd.
(619) 560-4900
(800) 854-6046
Tom, KM6K, Mgr.
Hwy. 163 &
Claremont Mesa

SUNNYVALE, CA 94086
510 Lawrence Expwy. #102
(408) 736-9496
(800) 854-6046
Ken, K1ZKM, Mgr.
Lawrence Expwy.
So. from Hwy. 101

VAN NUYS, CA 91411
6265 Sepulveda Blvd.
(818) 988-2212
(800) 854-6046
Jon, KB6ZBI, Mgr.
San Diego Fwy.
at Victory Blvd.

NEW CASTLE, DE 19720
1509 N. Dupont Hwy.
(302) 322-7092
(800) 644-4476
John, N1FL, Mgr.
RT.13 1/4 mi., So. I-295

PORTLAND, OR 97223
11705 S.W. Pacific Hwy.
(503) 598-0555
(800) 854-6046
Earl, KE7OA, Mgr.
Tigard-99W exit
from Hwy. 5 & 217

DENVER, CO 80231
8400 E. Iliff Ave., #9
(303) 745-7373
(800) 444-9476
Joe, KDØGA, Mgr.

PHOENIX, AZ 85015
1702 W. Camelback Rd.
(602) 242-3515
(800) 444-9476
Gary, WB7SLY, Mgr.
East of Highway 17

ATLANTA, GA 30340
6071 Buford Highway
(404) 263-0700
(800) 444-7927
Mark, KJ4VO, Mgr.
Doraville, 1 mi.
no. of I-285

WOODBIDGE, VA 22191
Washington D.C. area
14803 Build America Dr.
(703) 643-1063
(800) 444-4799
Jerry, WA2GV, Mgr.
Exit 161, I-95, So. to US 1

SALEM, NH 03079
Boston, MA area
224 N. Broadway
(603) 898-3750
(800) 444-0047
Chuck, KM4NZ, Mgr.
Exit 1, I-93;
28 mi. No. of Boston

AZ, CA, CO, GA, VA residents add sales tax.
Prices, specifications, descriptions, subject
to change without notice.



YAESU

FT-900

NEW!



Compact HF Trans., 100W, optional built-in auto tuner
Removable front panel, optional kit required.
QSK, 100 Mem. Gen Cov. Rx, OMNI-Glow display
Call Now For Intro. Special!

FT-736R

The Ultimate Oscar Machine



VHF/UHF All Mode Transceiver
25W, Built-In Pwr Supply

FT-1000



200W, DUAL RX,
GEN COV RX, QSK, TCXO

CALL NOW FOR OUR LOW PRICING!

HANDHELDS

NEW!



FT-11R/41R
2M 440mHz

150 Mem. Channels
1.5W standard
5W option
Alpha-numeric display
Compact & back lit keypad

\$20.00

FT-840

NEW!



100W • 12V DC • DDS • Gen. Cov. Rx, 100 mem.
Optional Ext. Auto • Tuners Available

CALL NOW FOR OUR LOW PRICING!

FT-5100/FT-5200

2M/440 Mobile 2M/440 Mobile

NEW!



Ultra compact 50W/35W
94 Memories • Non-removable
Dual in-band receive
Built-in DTMF paging/Coded Sqr.
CTCSS Encode built-in
Backlit DTMF mic included

Ultra Compact
50w/35w 2m/440
32 memories
Built-in duplexer
Backlit DTMF
MIC included

CALL NOW FOR OUR LOW PRICING!

FT-2200H

2 Mtr.

NEW!



2M 50W Mobile
50 Mem. CTCSS Encode +
Paging Built-In.
MW-2 Optional

Call For Special!

DUAL-BAND HANDHELDS

NEW!



FT-51R
2M/440mHz HT

2W standard
5W Optional
Alpha Numeric
120 Memories
Spectroscopie
DTMF Paging
Coded SQL
Built-in

Call For Introductory Pricing!

NEW!



FT-530
2M/440mHz

2W standard, 5W opt.
82 Mems
Dual in-band Rx
DTMF paging
+ coded Sqr. std.
Built-in VOX & CTCSS
Auto tone search
Built-in clock
Backlit keyboard

\$50.00

Table of Contents

The President's Message	By: President Lew McCoy, W1ICP 3
The General Manager's Report	By: GM Jim Walsh, W7LVN 3
Fall 1994 National Board Meeting Minutes Addendum	3
QCWA Officers and Board of Directors	4
Editorial	5
Letters to the Editor	6
Reach for Space	By: Jerome, K5IS, and Bobette, N5UDJ, Doerrie 7
FCC Highlights	By: Jack Kelleher, W4ZC 11
You Like My New Call?.....	By: Jack Troster, W6ISQ 13
The Commercial Radio License—Do it Before July!	
.....	By: Gordon West, WB6NOA 14
QCWA JOURNAL Book Review: <i>Lew McCoy on Antennas</i>	
.....	By: Mark Perrin, N7MCA 16
A Part of History	By: Perry Brittain, VP2MR/W5STI 17
CQ DX	By: Chip Margelli, K7JA 18
Silver Belles	By: Carol King, K5CPZ 19
Ham's Health	By: Dr. Dub George, WA5BFF 20
Amateur Radio Satellite News	By: Keith Pugh, W5IU 23
1994 Convention Highlights	25
QCWA JOURNAL Book Review: <i>Antennas and Techniques for Low-Band</i>	
<i>DXing</i>	By: Doug Hensley, WJ5J 26
1995 National Convention News	27
Current Contests	27
1995 National Convention Registration Form	28
QCWA Membership Application	29
QCWA Member Supplies	30
Chapters on the Air	31
Chapter Reports	32
New Members	49
Silent Keys	52
The Wireless Exchange	By: Doug Hensley, WJ5J 53
FCC Form 610B.....	54
FCC Form 610B Instructions	55

Our Cover

One QCWAer has decided that there is much more to the hobby than sitting around and making endless QSOs with the same (*ahem!*) old people. Jerome Doerrie, K5IS, has teamed up with his wife, Bobette, N5UDJ, who is a physics teacher at Perryton, Texas High School, and together they work with young people teaching them about weather, physics, and, of course Amateur Radio. Our cover photo shows the balloon launch of February 18, 1995 at the high school. Attached to the balloons is an Amateur Radio payload. For Jerome's story of the launch please turn to page 7.

Welcome Aboard New Advertisers

As you can see, we have added still more new advertisers. We welcome PolyPhaser, Vibroplex, and zm xpressions. Additionally, we want to thank those advertisers who are supporting us regularly.

Please support these advertisers as they think enough of the organization to support it.

Erroneous Silent Key Report

According to Perry F. Crabill, W3HQX, the listing of Morley J. Lush, W1JUR, member number 23783, as a Silent Key in the Winter 1994 issue is premature. Morley is alive and well, as attested by the daily HF schedules he keeps with his friend Guy Black, W4PSJ, in Winchester, VA.

Perry states, "You may wish to question the credibility of your information source and also verify Morley's status by contacting him direct."

Perry concludes, "I have no way of knowing whether this is a hoax or an honest mistake on someone's part."

To Morley and the members and friends of Morley we apologize for this erroneous listing. We wish you a happy and long life.

CW Net Changes Frequency

Owing to propagation problems caused by the declining sunspot cycle, the National CW net has switched from 40 meters to 80 meters. The new net frequency is 3.535 MHz until further notice.

The President's Message

As many of you know, plenty has happened to me since I last wrote in these pages. Briefly, I had a small cyst in my neck that had to be removed by surgery. My doctor told me that I had to have a heart check to make sure I could take the surgery.

On November 29th my wife and I went down to Las Cruces, New Mexico to a cardiologist who did an echocardiogram. He then informed me that I had to go to the hospital for a dual catheter scan (three hours on the table). Next, he informed me that I needed an immediate bypass operation or I would be a Silent Key within two to three weeks! They did a quintuple bypass (five hours on the table!).

I did fine for about a week but then my ticker stopped a couple of times so back into surgery to have a pacemaker installed. I am all OK now—I think(?) I have lost 45 pounds in six weeks, now at 219 and still going down so you will soon have a positively skinny president.

I haven't gotten back on the air because I want to do some tests on the pacemaker first but I should be on the Sunday SSB net soon.

Last but certainly not the least—many, many thanks from me for all of you who sent cards and get well letters—believe me they really helped.

Be sure to read the FCC column in this issue. We have received the FCC notice (Docket 93-305) that those who held previous calls can get them back. This is tremendous news for many old timers who have moved and lost their calls. QCWA has been fighting for this for many years and evidently, the FCC recognized the importance of our filing.

Vy 73 de Lew McCoy, WIICP.

The General Manager's Report

An item that has been published, but perhaps not noticed by many members, is that the Life membership dues, domestic, will be increased from \$225 to \$300 on June 1, 1995. If you have any ideas about becoming a Life member—now is the time to send in your fees and request. A number of years from now you will be pleased that you had the foresight to do this.

We continue to receive old application forms and this causes a great deal of problems. If you have some applications, take a look at the box in the upper third of the page which says that "this form for use by ..." and below that statement is a "Effective 10/1/93" date on the current form. Please destroy any older forms and let us know and we will be more than happy to send you a supply of current forms. In each issue of the *JOURNAL* we always have a current form if you wish to photocopy it.

Hamfest time is upon us and we can turn our attention to establishing tables at these affairs. Try it. It is fun and you will meet a lot of people and perhaps gain some new members. If you let us know in advance we can ship a "Care" package of supplies for the event. The "Care" package contains caps, patches and decals, as well as membership stamps for sale and applications and some extra Journals to hand out to new members that you sign up.

73 de Jim Walsh, W7LVN, General Manager.

Fall 1994 National Board Meeting Minutes Addendum

The following Amendments to the By-Laws were left out of the Minutes that were published in the Winter issue.

Constitution & By-Laws: Director Chaffee indicated that he had no further reports or changes on the By-Laws, but asked members of the Board to comment on further changes. The question arose in connection with elections as to when the polls close—July 15 or July 31. After some discussion a motion was made, seconded and approved, that Art. VI Sec 6 should be modified to read: "...close of polls on July 31."

1995 Budget: Director Huntoon made a motion that the proposed 1995 Budget submitted by the Treasurer Randles be approved. The motion was seconded and passed.

The subject of "over-budget" items came up for discussion. President McCoy and General Manager Walsh both gave examples of over-budget items that had occurred. Director Yoder called the Board's attention to Art. VIII Sec. 2 of the By-Laws, and made a motion that Art. VIII Sect 2 of the By-Laws be modified to the effect that expenses in excess of the current approved amount be approved by the President and Vice-President. The motion passed.

Respectfully submitted, John Swafford, W4HU, QCWA Secretary.

QCWA Officers And Board Of Directors

President

Lew McCoy, W1ICP, 1500 Idaho Street, Silver City, NM 88061, 505-388-4862, Fax 505-538-8676

Vice-President

John Kelleher, W4ZC, 612 Ednor Rd., Silver Spring, MD 20905, 301-924-1605, Fax 301-924-0420

Secretary

John Swafford, W4HU, 2025 North Kensington Street, Arlington, VA 22205, 703-536-9537

Treasurer

Wes Randles, W4COW,

May 1 - October 1: HCR-32 Box 591, Stoddard, NH 03464, 603-446-3492

October 1 - May 1: 6002 N. Fremont, Tampa, FL 33604, 813-870-0867

General Manager

Jim Walsh, W7LVN, 159 East 16th Ave., Eugene, OR 97401-4017, 503-683-0987, Fax/BBS 503-683-4181

President Emeritus

Leland Smith, W5KL, 10 Hawthorn Drive, Harrison, AR 72601, 501-741-0473

Directors

Milton Chaffee, W1EFW, 28 Reussner Road, Southington, CT 06489, 203-628-2750

John Huntoon, W1RW, P. O. Box 18404, East Hartford, CT 06118, 203-568-4758

Gladys V. Chase, W1VPF, 75 Chestnut Circle, West Suffield, CT 06093, 203-668-0845

Walter Brink, W3WPY, 919 Cloverfields, Stevensville, MD 21666, Phone/fax 410-643-2933

Edward W. Yoder, W3YMB,

Winter: 4632 SE 5th Place, Cape Coral, FL 33904, Phone/fax 813-540-7725

Summer: 5028 Northlawn Dr., Murrysville, PA 15668-9423, Phone/fax 412-327-7646

Amelia E. "Milly" Wise, W5OVH, 8516 Mount Scott Dr., El Paso, TX 79904-2915, 915-751-4160

John G. Troster, W6ISQ, 82 Belbrook Way, Atherton, CA 94025, 415-854-3939

John Edel, K8LBZ, 7350 Mudbrook NW, Massillon, OH 44646, 216-832-5932

Gary R. Harrison, WAØRWS, P. O. Box 467, Bolivar, MO 65613-0467, 417-777-7777

Croft B. Taylor, VE3CT,

Winter: 5505 Ashton Lake Dr., Sarasota, FL 34231-6256, 813-924-4540

Summer: 3 Weatherly Dr., Kanata, ON, Canada K2W 1A3, 613-839-3336

THOSE WHO HAVE SERVED

Past Presidents

John DiBlasi, W2FX (SK)	1947-1964
Earl R. Thomas, W2MM (SK)	1965-1968
Clarence Seid, W2KW	1969-1971
Barry Goldwater, K7UGA	1972-1973
Frank A. Gunther, W2ALS	1974-1977
Harry S. Gartsman, W6ATC	1978-1981
Stuart Meyer, W2GHK (SK)	1982-1985
Leland Smith, W5KL	1986-1989
Harry Dannals, W2HD	1989-1994

Executive Secretary/General Manager

Ralph Barber, W2ZM (SK)	1955-1964
Gus Gironda, W2JE (SK)	1965-1973
Ethel Smith, K4LMB	1974-1976
Ted Heithecker, W5EJ (SK)	1976-1991

QCWA JOURNAL is published four times a year (quarterly) by the Quarter Century Wireless Association, Inc. Membership in QCWA, including a subscription to the JOURNAL is available to individuals who qualify in the United States and its possessions at the following rates: \$15.00, for one year; \$25.00, for two years; \$35.00, for three years; and \$225.00, for life. For foreign membership rates, please contact the business office.

The Quarter Century Wireless Association and QCWA JOURNAL in no way warrant the products described or reviewed herein.

The JOURNAL does not assume responsibility for unsolicited manuscripts. Permission to reprint material herein is granted, provided that QCWA JOURNAL is credited.

Subscription to the JOURNAL for non-members in the US is available for \$15.00 per year. Contact the business office for subscription information. The JOURNAL is available free to blind and physically handicapped paid-up members on audio cassette tape. For more information, contact Blanche Randles, W4GXZ, (May 1-October 1) HCR-32 Box 591, Stoddard, NH 03464, 603-446-3492; (October 1-May 1), 6002 N. Fremont, Tampa, FL 33604, 813-870-0867.

The Quarter Century Wireless Association, Inc. was founded December 5, 1947, as a non-commercial association of radio amateurs organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment and advancement of the radio art and of the public welfare. QCWA is an incorporated association without capital stock chartered under the laws of the State of New York, and is a tax exempt 501(C)3 organization under the Internal Revenue Code of 1986. Its affairs are governed by a President, Vice-President, Secretary, Treasurer and a Board of Directors, whose voting members are elected every two years by the general membership. In order to qualify for membership in QCWA one must have demonstrable proof of having been first licensed as an Amateur Radio operator at least 25 years prior to application for membership and is currently licensed. Membership inquiries and general correspondence should be addressed to the business office at 159 E 16th Avenue, Eugene, OR 97401-4017 USA. Telephone, 503-683-0987. Fax/BBS, 503-683-4181. Postmaster: Please send change of address to: QCWA, Inc., 159 E. 16th Ave., Eugene, OR 97401-4017. Printed in USA and mailed Third Class from Eugene, OR, Oklahoma City, OK and other cities.

EDITORIAL

The Power of One QCWAer.

This issue of the *JOURNAL* is chock full of examples of one QCWAer making the difference. Perry Brittain, VP2MR/W5STI, tells the story of one QCWAer who, during WWII, performed a heroic deed that saved his entire B-17 aircraft crew. The announcement of the FCC's Vanity callsign program came about largely because a few QCWAers kept pestering the FCC over the years for some sort of legislation to allow holders of previously held callsigns a method of re obtaining them. In the Chapter Reports section you will read about how members of Chapter 184 assisted students of Gardens Elementary School in Pasadena, Texas during their contact with one of the Shuttle missions.

Most importantly, however, is the lead story. "QCWAer, Students Reach for Space" tells how one QCWAer, Jerome Doerrie, K5IS, working alongside Bobette, N5UDH, his physics teacher wife, developed a program of balloon launches that has become a teaching instrument for the physics students at Perryton, Texas, High School.

On a chilly, blustery, February Saturday morning a group of students, parents, teachers and well-wishing fellow ham radio operators gathered on the practice field of Perryton High. From there they launched two weather balloons carrying an Amateur Radio transmitter payload and then for over three hours tracked them across the panhandles of Texas and Oklahoma.

The lessons learned by the students were uncountable. How about weather. How about radio wave propagation. How about ... well, you read the article and figure out some more for yourself.

Up to now you may have thought that you are only one QCWAer, that you can't possibly make a difference. Maybe you think that you don't have much to offer. Consider this example: One QCWAer I know, who prefers to remain anonymous, likes to visit nursing homes and just be a friend to people who often have no one visit them. And, QCWAer Dan Dansby, W5URI, is a most visible promoter of Boy Scouting.

Perhaps some of the stories in this issue will give you the inspiration to think of how you, as one QCWAer can make that special difference.

Vanity Calls are Here...Well, Almost.

As mentioned above, the FCC has announced a program of Vanity Callsigns. What it means to us is that we can eventually apply for a previously held callsign, or that of a deceased family member. I say *eventually* because as of publication of this issue of the *JOURNAL* the release date of the first gate (the one which we will enter) is still pending. The FCC is awaiting the approval of the form (610-V) by the Office of Management and Budget. Such approval is expected sometime in May.

What is available right now is the ability to apply for a new club callsign. If your Chapter does not have a club callsign, then your Chapter must apply for one and be issued one *before* it can apply for a memorial callsign, one which was previously held by one of your Silent Keys. The effective date for this regulation was March 24, 1995.

In order to make application, you must use FCC form 610-B (a copy of it is reprinted elsewhere in this issue of the *JOURNAL*). Because the present form is only used for renewal, you must write in the word "New" in the callsign box at the top of the form (item1).

The current FCC regulations deem that a bona fide club is one that consists of two members and has a constitution. Therefore, all active Chapters of QCWA are eligible to apply for a club callsign.

Your club's initial callsign will be issued from the current group D (Novice). After you obtain your call and when the gate is opened for your trustee's class of license then you can apply for a memorial callsign.

The best source for knowing when the gates will be open should be the ARRL bulletins broadcast on W1AW and carried on most Packet networks.

We owe a lot to the leadership of QCWA, both past and present, for their tireless work in making it possible to re obtain our previously held calls and for our Chapters to obtain a memorial callsign thereby honoring a Silent Key.

Next Issue.

Your Editor is looking for travel related stories, such as operating a ham station from an RV, etc. If you have a story with that theme that you think would be interesting to your fellow QCWAers, send it in by May 1, 1995. We will consider it for publication in the Summer Issue of the *JOURNAL*.

Until next time...

EDITORIAL STAFF

Editor-in-Chief
Joe Lynch, N6CL

Column Editors
Dr. Dub George, W5BFF
Ham's Health
Doug Hensley, WJ5J
Wireless Exchange
Jack Kelleher, W4ZC
FCC Highlights
Carol King, K5CPZ
Silver Belles
Chip Margelli, K7JA
CQ DX
Keith Pugh, W5IU
Amateur Radio Satellites
Gordon West, WB6NOA
Features Articles

Advertising Sales
For ad placement, call: 405-528-2141

Editorial Office: P. O. Box 73, Oklahoma City, OK
73101-0073. Telephone: 405-528-2141. Fax: 405-528-
0746. Internet: 72124.2734@compuserve.com
Business Office: 159 E. 16th Avenue, Eugene, OR
97401-4017. Telephone: 503-683-0987. Fax/BBS: 503-
683-4181.

Letters to the Editor

Please send your letters to: Editor, QCWA JOURNAL, P. O. Box 73, Oklahoma City, OK 73101, Internet: 72124.2734@compuser.com, or fax at 405-528-0746.

Life is Precious. Handle with...

Dear Editor:

The "Life is precious. Handle with..." editorial should be read by each of us at least once a month. Now that I'm older I have a new awareness of how precious life is and remind myself frequently to make the most of every day. Time passes quickly and I want to pack in all I can. To harbor ill feelings toward people or not try to find out why there are misunderstandings is wasteful. It's far better to "mend fences" and spend some time trying to find out where a relationship went wrong. As the ad used to say, "You'll even look better and feel better".

73 de Charles S. Griffen, W1GYR

Dear Editor:

Just a few comments about the *New QCWA JOURNAL*. I have never been so pleased with any publication as I have with your taking over the reins at the *JOURNAL*. I read it from cover to cover except the Chapter Reports, which brings up another subject.

I do not understand why there is so much weeping and wailing by the Chapters when they don't get their reports and pictures published. Since I do not belong to a QCWA chapter, I am hesitant to say this, but will anyway. Why don't the Chapters print their reports and photos in their local newsletters? Then we could have articles that benefit a larger cross-section of the membership, like the report on the TS-850 transceiver by Lew McCoy. I personally want more reviews on equipment and antennas in the *Journal*. I would like to see a report on things like the Falcon audio distribution amplifier, the Grove SPK 13, DSP filters, etc.

We hope Lew is doing great. I am looking forward to working him soon on the ham bands. All the best to you, Joe, and the *QCWA JOURNAL*.

73 de Tex Kehley, WIICW, Life NR 14291.

Keep Those Letters Coming, Dick

Dear Editor:

Come on now! How much longer can you go on making each issue of the *JOURNAL* better than the last one?

73 de Dick Baldwin, W1RU.

Dear Dick:

As long as they (the national officers and board) let me. Thanks, and write often, Dick.

73 de Ed.

Al Has a Problem

Dear Editor:

I have a problem. My problem is that I can't understand why some members do carry on and whine so about the size of type used in the *JOURNAL*. Give me a break! C'mon fellas, it isn't always "the other guy's fault." Sometimes we have to put the blame where it really belongs: squarely on our own shoulders.

Yes, our old eyes are not what they used to be. But, isn't it better to light a candle than to curse the darkness? By the same token, isn't it better to update one's eyeglasses prescription than to gripe and moan that the type is too small? Be reasonable, gang. The *JOURNAL* is for all of the members, not just for the few who love to complain.

Keep the type size as it is—it's just fine, with the proper glasses!

73 de Al La Placa, W2WW.

Dear Al:

As I wrote in response to Joe Lynch, K9IFE's letter last time, I am perfectly willing to make copies of certain articles using a larger type.

However, your point about updating our prescriptions is well taken. This interest in one's own medical well-being is why I started the "Ham's Health" column.

Nevertheless, I will not make the print smaller than I can read with my dime store glasses.

73 de Ed.

Joe Lynch, K9IFE, Silent Key

As I was preparing the *Silent Key* list for insertion in this issue I came across the name and call of Joseph E. Lynch, K9IFE. I immediately recognized it as the Joe Lynch who has written me three letters since my taking over as editor. His first letter was to congratulate me. His second, which appears in the Winter 1994 issue, was taking me to task for printing in too small a type. His third letter was written to me shortly after publication of that Winter issue to thank me for offering to supply larger type print of particular articles to anyone who would request them. It was quite a shock, therefore, to read that my friend had become a *Silent Key*.

I don't know much about Joe. We two Irishmen shared the same first and last names. Joe was much older than me, having been born in 1911 (three years before my father). We shared other things in common besides our names. We both are QCWAers and hold Extra Class licenses. And, we both love the printed word. Beyond that, I know nothing else.

I certainly will miss Cousin Joe, however.

To his family, I send my condolences.

73, Cousin.

Ed.

Announcements

Dayton Banquet Planned

The Southwest Ohio Chapter 9 will hold its 1995 Annual Banquet on Friday, April 28, the first evening of the Dayton Hamvention at Alex's Continental Restaurant. COD bar at 7:00, banquet at 7:30. The program will be "Keys to the Success of the Wright Brothers." Reservation deadline is April 26. QCWA membership is not required for attendance. For tickets (\$15.00 each), make check payable to Robert L. Dingle, Treasurer, Chapter 9 and mail it to 1117 Big Hill Rd., Kettering, OH 45429-1201.

Ralph Cabanillas, W6IL, SK

The QCWA Net was astounded on Sunday, January 29, 1995, to receive word that a long time faithful member of QCWA had died.

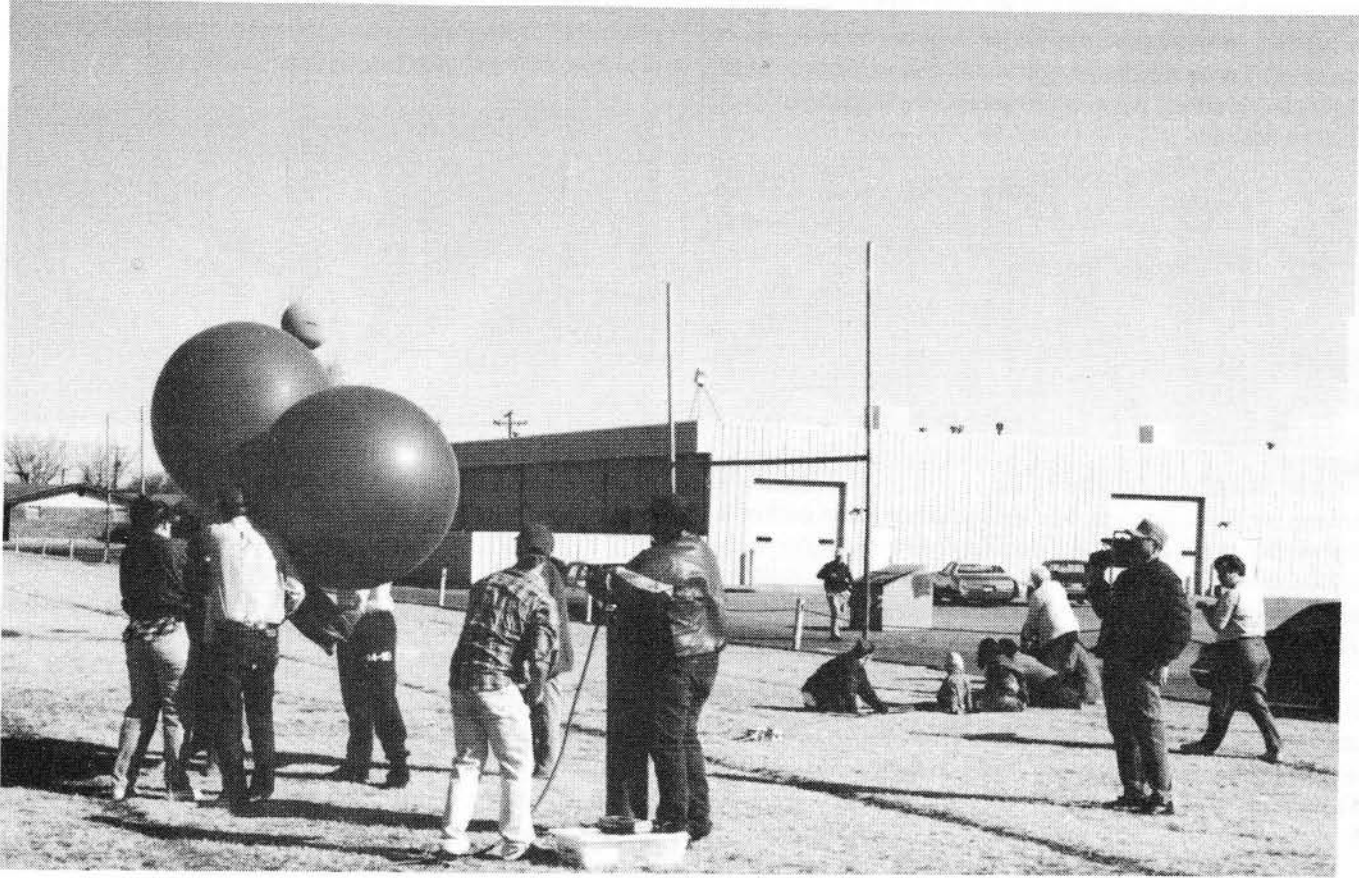
Ralph was born August 2, 1910 in the New York area and lived there for some forty years. He had a varied career most of it in some form of radio activity.

Ralph was a very interested member of QCWA. For many years he helped Ted Heithecker with the compilation of SK reports.

He will be missed by all who knew him so well.

Reach for Space

By: Jerome, K5IS, and Bobette, N5UDJ, Doerrie, Rt 2 Box 504, Booker, TX 79005.



Students and teachers involved in the balloon launch make last minute preparations just prior to releasing the balloons. Story photos courtesy N6CL.

“Your assignment is to invent a device that will start with a golf ball and exactly sixty seconds later deliver the same or a different golf ball. Your device must be able to fit through the door of the classroom, cannot have more than five dollars in materials, and existing items can not be used in the original context. You will be graded on creativity, accuracy of timing.”

When a student first encounters one of these design challenges, shock occurs. Now, active, applied learning has to take place. No longer is memorization the way to a good grade. The teacher as the “fount of knowledge” is being replaced by the teacher as a director of learning.

The Perryton High School “Reach for Space” weather balloon project was created as a design challenge that was submitted in a contest for innovative teaching ideas sponsored by the American Association of Physics Teachers. “Reach for

Space” was selected as the national second place winner and received a modest cash award.

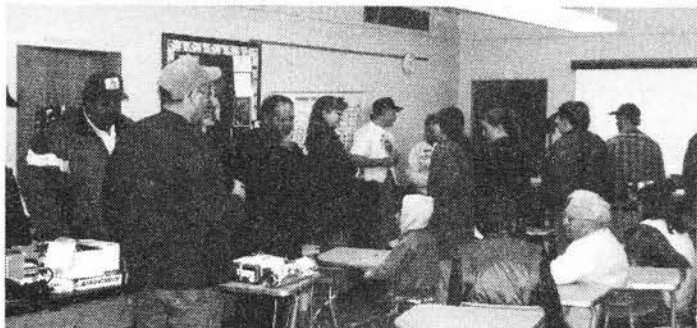
The members of the Top of Panhandle Amateur Radio Club have been helping with the balloon project, but as a small club we often are short on the number of hams needed for the chase teams. This fall, members of the physics classes were invited to become licensed and join in on the fun. The students have permission to hold a flight on a school day, so February 18th had been set as a practice flight to start getting everything ready for the “big” school day event.

The Flight (From The Log Of The Flight Director; All Times Are Local)

7:30 AM: Seems like it was a short night. Stayed up until 2:30 AM building little four element Yagi antennas for 2 meters, visiting, and doing last minute items on the payload package. This morning soldered the coax to the driven elements.

8:00 AM: Telephone weather service for this morning's flight data on winds aloft from their 6 AM balloon flight. Grab something for breakfast—almost too excited to eat—and start loading stuff.

8:30 AM: Head out for school. Reflect back on previous launches. We have learned to avoid the use surplus balloons, as the rubber has a short shelf life and gets brittle. Discovered that balloons come in different sizes and we had extra large—takes lots of helium. Now we purchase Toltex balloons from Kaymont Consolidated. Today will be using a smaller size that is rated to 40-45,000 feet altitude. Appreciate that Hoechst-Celanese donates the helium!



Teachers, students, parents, and well-wishing hams gather in the physics room during last minute preparations for the balloon launch. Among QCWAers present are: YL Editor Carol King, K5CPZ (center, back to camera) and National Director Milly Wise, W5OVH (right adjacent to Carol).

8:40 AM: Turn on 2 meter FM rig and connect the 146.82 MHz repeater to the Caprock Intertie system. This covers the upper Texas and Oklahoma panhandles. Chat a minute with Bart, NZ5T, enroute from 80 miles east. Gas up and get to school 9:05.

Open school, have Orville, KC5AQW, and his fourth grade nephew Carmen arrive. Carmen asks, "Are we using a baked potato again?" We used a baked potato once to help keep the payload warm in the -50°F of the upper atmosphere. They help carry in the 24 inch diameter parachute and string assembly. Below the parachute is an embroidery hoop, so that the parachute will be sure to open as it falls. If the connecting strings get twisted, it becomes a big problem to get straightened out later. There is a swivel attached above the top of the parachute and one attached below the hoop ring so that some of the twisting action of the balloons will not affect the payload.

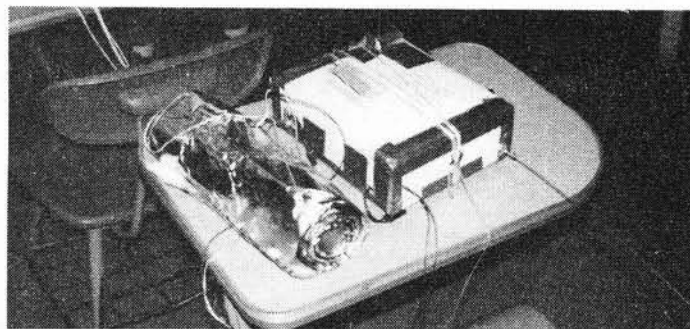
9:20 AM: Call FAA. Since the payload is under six pounds and we use string that has a 50 pound or under breaking point, the FAA gives us the green light to launch.

9:30 AM: Plug in hot glue gun. The ham couple, Mike, KB5YRL, and Nancy, KC5ADB, arrive. Put Nancy to task of making up string that connects radar reflector to payload, Hot glue all knots.

9:40 AM: Someone unrolls about 15 feet of aluminum foil and starts to put tape on the edges to strengthen it. Have Mike plot projected course on map. Announce that it looks like we will be

going to Kansas! Proposed recovery to be 68 air miles at 60 degrees. This is a mile north of the Kansas state line and 2 miles east of highway 23 out in some grassland. Contact Steve, AB5IX, tell him to wait at home as balloons will be coming his way.

9:50 AM: Inspect parachute, ring, payload, have dipole antennas taped to string, attach radar reflector. Answer many, many questions. Newspaper photographer arrives. Chat with Marty, KB5YRM, on repeater, say we are running behind schedule, now estimate launch to be 10:30 AM.



The payload consists of three transmitters (10 meters, 2 meters, and commercial FM broadcast band). Also shown is the roll of the 15 feet of aluminum foil used as a radar reflector.

10:00 AM: Start the processional of moving out to launch site. Lots of picture taking, video cameras, and more questions and have people carrying parachute, ring—watch the strings...don't twist it—payload, radar reflector, gee, the whole mess is now some 50 feet long!

10:05 AM: Make it to practice field and lay payload, etc. out on ground so we can start filling the balloons. Have Torri and David put on latex gloves as we try to avoid touching the balloons with our bare hands. Something about the oil from our skin is not the best thing. Start filling the first balloon, a little 300 gram that is red in color. Answer more questions. Hello, wind.

10:15 AM: Make mental note to self to have stuff in a fishing tackle box so as to avoid having to run back to vehicle for each item. Attempt to measure lift of the balloon with digital fish scales. Add more gas. Have neck of balloon put through a loop of string, fold balloon neck back onto itself and tape well. Meanwhile, balloon fights everyone around it and tries all kinds of antics.

10:20 AM: Start filling second balloon. Haven't tried two before, wonder how and if it will work? Holler at club president John AB5NS, "Hey, John, plug in the electronics on the payload." It would really be cute to launch and to have forgotten to turn on the beacons. The 146.82 MHz starts up fine. The 28.332 MHz starts chirping away. The 88 MHz wireless FM mike starts doing its thing. Feel relief.

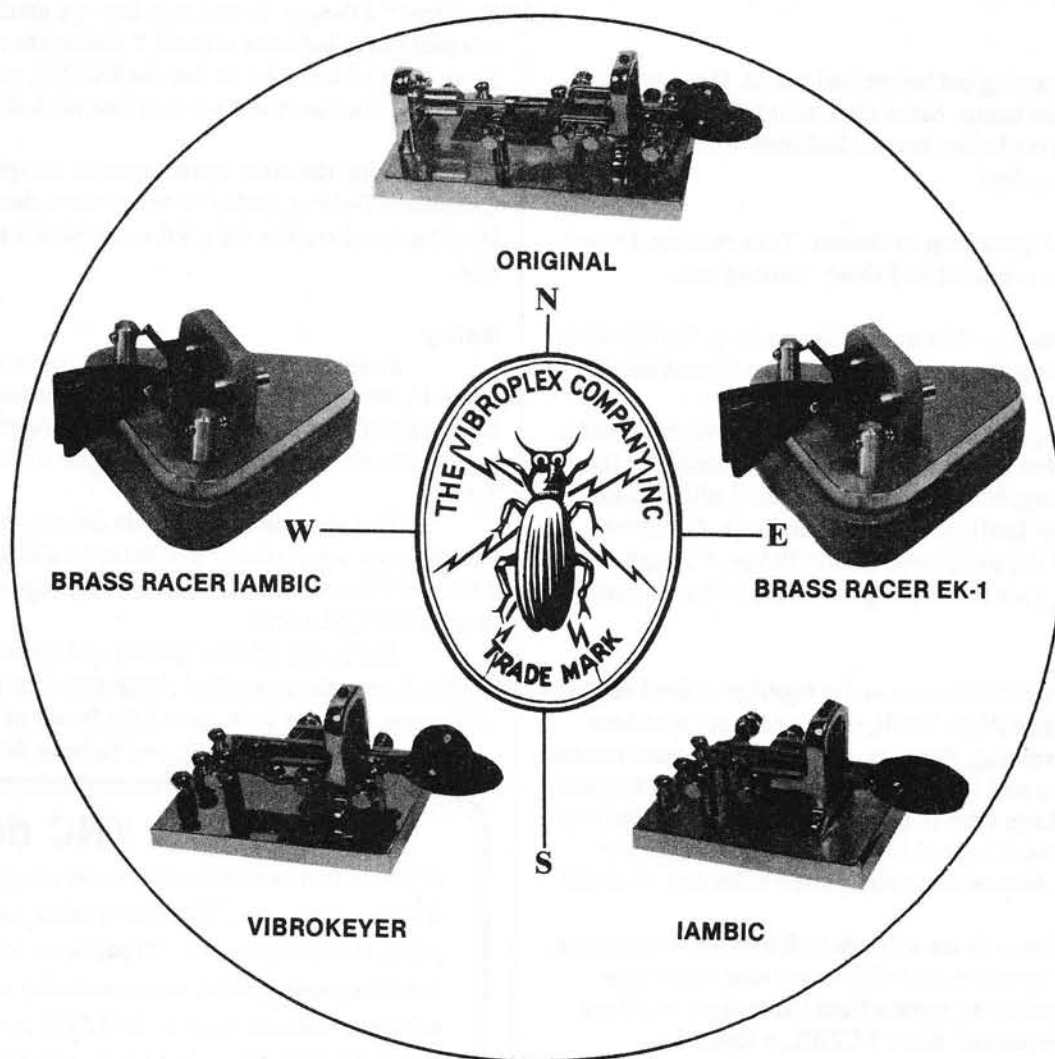
10:27 AM: Get students to handle the balloons and payload. Have Joe, N6CL, and others taking lots of pictures. Milly,

**“Our Keys Unlock
the World”**

VIBROPLEX®

“the oldest name in amateur radio”

1-800-840-8873



Also available is our “100th Anniversary Book,” a history of our keys and company along with other Vibroplex gift items. Order your catalog.

The Vibroplex Company, Inc., 11 Midtown Park, E., Mobile, AL 36606
1-800-840-8873 toll free 205-478-8873 local 205-476-0465 FAX

W5OVH, from El Paso is helping hold onto the radar reflector along with about five more people. Carol, K5CPZ, and Jennifer, KA5WMJ, are present. Get whole crew moved more to the west and items in line with the wind. Tell everyone to run with the wind and let go of their items so as not to have any jerks in the balloon system. We launch on the count of three.

10:29 plus AM: Shout "one" "two".... "three!" at 10:30. Balloons start out and do fine until reaching the payload, payload does not jerk, it fact it is going at same height, now the radar reflector drags along on the ground. Watch my language and mutter something about not enough lift. Radar reflector catches on cable fence that is at edge of practice field. Before anyone can react and grab, it tears off and balloons continue towards school building. Run after balloons. Too slow, balloons just clear roof and continue to catch in a pine tree. Think appropriate words that can say aloud.

10:32 AM: Balloons and package jerk free of tree and the flight is under way. Pray that it will clear the electrical lines! Prayers answered!

10:35 AM: Start passing out beams and radios. Wow, we start out with eight chase teams. Make note, next time to have equipment passed out before launch. Balloons will not reach burst altitude. Long day!

11:30 AM: Stop at quick stop in Booker. Take reading. Inspect facilities. Balloons overhead and slowly moving east.

12:00 Noon: Just east of Darrouzett, take reading. Balloons just slightly south of us and continuing on a basically east course.

12:30 PM: At the quick stop in Follett find several chase teams ordering sandwiches. Make note, require sack lunches in the future. Take reading; balloons just east of town still drifting eastwardly. Inspect facilities and get a sandwich. Come back out, where did all the wind come from? Oh boy, a trough is blowing through. This is not going to be fun. Balloons start outracing us.

1:10 PM: Have five chase teams arrive together at dead end of Highway 15 east of Follett. Thrill, we are now in Oklahoma. Have four take a reading. Surprise, all four get the same results. 75 degrees on map and 30 degrees elevation. First and last time that any two readings were in agreement for the day. Send two teams two miles south to road that heads east to Fargo, say "follow balloon". Rest of us go north three miles and head east.

1:20 PM: Count beeps in ten seconds to determine temperature. Beeps starting to speed up, so balloons are now on the way down. Getting conflicting reports from the stations that have joined us on the repeaters. Steve KC5BIL, a student at Mooreland, Oklahoma has heard us and joins in the chase.

1:45 PM: The ten meter 50 milli watt signal has held in strong all day. The watt and a half two meter signal is getting weaker. Take reading from Lake Supply-still 75 degrees on map and 25

degrees elevation. Beeps getting faster, it's coming down! Sent NZ5T on to get north of Fort Supply.

2:00 PM: Larry, KØCIO, has just lost the signals. Getting weaker at KA5AAE's, then lost at 2:01 PM. Still hearing ten meters strong, two meters is very weak. Miss turnoff in Fort Supply. Now where is the road going north? Miss it again, go north on west side of town. Find a high spot and slam on breaks, jump out and signal disappears before getting a two meter reading. Now we get to drive out the countryside, hoping that payload is close enough to a road that we will hear it. NZ5T an" KC5BIL start the search. Wish for GPS on balloon.

2:05 PM: Declare the balloon flight over. Consider the conflicting data and start the systematic area-wide search. High school students really excited!

Shawn: "I enjoyed the chase most!"

David: "I really enjoyed driving to try to keep ahead of the balloon. It was nice to have Milly, W5OVH, with us."

Brandon: "I thought it was neat how we used a little box attached to the balloons to track it during the chase."

Torri: "We all had a lot of fun. As KØCIO, said, 'It is addictive'. You need and want to find the balloon!"

2:45 PM: Find the other chase teams at the quick stop in Fargo, Oklahoma. Debrief, gather in equipment, check facilities. Head back to Perryton for a VE examination session at 4:00 PM.

Epilog

Flight six lasted 215 minutes, reaching an altitude of some 14,000 feet. The payload is probably some six to eight miles east of Fort Supply near where the North Canadian River turn south. No roads in this area. Maybe a pilot will soon spot it for us.

You can join in the fun on Saturday and Sunday mornings by monitoring 7.230 MHz for Colorado and 7.155 MHz for Texas balloon launches. All groups welcome signal reports and QSL cards.

Better yet, adopt a teacher and become involved with adding ham radio to another classroom. One person can make a difference. You can help spread the Power of One!

73 de Jerome, K5IS, and Bobette, N5UDJ.

"What is your TNC doing?"

is a book that explains packet radio using plain-English. It explains how the TNC talks to other stations, the computer, and the radio. All 120 pages are loaded with details, operating hints, troubleshooting tips, and good reference material. Author: KA5ZTX. Available at many ham radio stores. To order direct, send \$15 plus \$3 U.S. shipping and handling (no credit cards) to zm xpressions, 1544 N 1000 Rd, Lawrence KS 66046-9610.

FCC Highlights

By: Jack Kelleher, QCWA Vice-President, 612 Ednor Rd., Silver Spring, MD 20905, phone, 301-924-1605, fax, 301-924-0420.

A Vanity Callsign System Announced

On April 21, 1994 QCWA commented to the FCC concerning its proposal for a Vanity Callsign System. QCWA's remarks said in part:

"QCWA is primarily concerned about the many Amateur Radio licensees who were required to surrender their old callsigns when they moved to another call area, per the Commission's rules at that time. However, when this was no longer a requirement, there was no vehicle for re obtaining the lost call because the Commission was now systematically issuing callsigns. When this point was discussed with Commission personnel several years ago, there was very little sympathy shown for those who had lost their identity, if you will, by the prior action. In fact, the comment was made that Radio Amateurs have an obsession with call signs!

"Yes, there is a binding relationship for many with call letters they have been assigned through the years. Many of those who 'lost' the earlier call would be extremely happy to have the old call back. Undoubtedly, there are others who have been content with the luck of the draw when the required change was put into effect. It is for the former group that the QCWA is requesting special consideration under the new 'Vanity Call' system, as the only avenue which can achieve the results desired . . . re obtaining that call which was once taken away."

As explained below, the Commission has responded to QCWA's request and developed a method for re obtaining one's previously held callsign through a system of "starting gates". Below is the text of the FCC news release dated January 24, 1995.

"Commission Amends Amateur Service Rules To Implement A Vanity Call Sign System (Pr Docket 93-305).

"In recognition of the strong sense of identity among amateur operators that is grounded in the callsigns of their stations, the Commission has decided to offer a vanity call sign system to the amateur service community. The Commission will also resume issuing new club and military recreation station licenses. The Commission said these actions are fundamental to its commitment to putting the needs of people first in providing services that they want.

"Each new amateur station licensed by the FCC is assigned a unique call sign. An automated process selects the call sign in accordance with the sequential call sign system. Until recently, the Commission unable to accommodate the many thousands of requests for call signs of the licensees choice. The Commission stated that one of its many steps in reinventing Government is to implement new licensing processing capabilities that make it practicable to grant such requests.

"The Commission will implement the new system by using a series of four "starting gates." Gate One would allow a previous holder of a call sign to apply for that call sign or, where the holder is deceased, a relative could apply. Gate Two would allow the 66,000 Amateur Extra Class operators, who have

passed the most difficult license examinations, to apply. Gate Three would allow the 112,000 Advanced Class operators who have passed the second most difficult license examinations, to apply; and Gate Four would open the system to any licensee, including a club station license trustee applying for the call sign of a deceased former holder. The Commission will announce the opening of each gate by a Public Notice. The first gate will open as soon as the new application form, FCC Form 610-V, is available and the Commission's licensing facility prepared to begin processing the applications.

"With respect to new club station licenses, the Commission stated that persons not already holding station license must first apply for and receive a license before filing an application with the fee collection contractor requesting that the license be modified to show a vanity call sign. However, the Commission will begin accepting applications for new club and military recreation station licenses on the date the Report and Order in this proceeding becomes effective. (Ed. note: This date was March 24, 1995.)

"News media contact: Patricia A. Chew at (202)418-0500. wireless Telecommunications Bureau (Maurice J. Depont at (202) 418-0690."

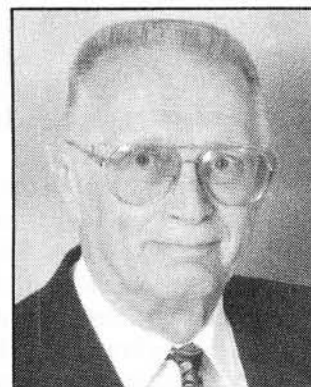
Reallocations near 2.4 GHz

The most recent Commission action was a Notice of Proposed Rulemaking issued on November 8th, 1994. In the NPRM the FCC acknowledged arguments from the Amateur Community concerning the impact of the proposed allocations on amateur activities in the sub-bands involved, which are shared by amateurs on a secondary, non-interference basis.

The ARRL filed comments and reply comments on the NPRM, which are summarized in the January 12 issue of the ARRL Letter.

In its Comments, filed on December 19, 1994, the League asked that the Amateur Service be given primary allocation status in the band 2402-2417 MHz, and that it be given at least co-primary status between 2390 and 2400 MHz. The League said that a previous government study had recommended the 2400-2402 MHz segment for amateur use, and that it would be desirable to make the entire segment 2390 to 2450 MHz amateur primary.

Reply Comments were filed by the League on January 3, 1995. They said that, with few exceptions, comments filed by others did not respond to the Commission's questions regarding the compatibility of the proposed commercial service with the amateur or other services. (The FCC had proposed maintaining a secondary allocation for the amateur service in all or part of this



spectrum or, to make the amateur service primary user in a portion of this spectrum while either maintaining a secondary allocation in the remaining portions of the bands or eliminating the other portions from the amateur service)

The FCC also sought comments on "the ability of various radio services to share spectrum with the amateur service". The League, in its reply comments, said that the bulk of comments filed were "absolutely silent" on the effect of a new proposed use on the amateur service.

Space limitations do not permit repeating the remainder of the Reply Comments.

An editorial in the February 1995 issue of *QST* magazine relates this particular action to the ongoing program of auctioning assignments. The editorial says in part: "With so much money chasing so little spectrum, it isn't surprising that some folks who have little understanding of the radio spectrum are proposing to extend a reasonable idea in an unreasonable direction. Not content to use the auction as an assignment tool, they want to use it also to make allocations decisions." After citing a Heritage Foundation comment that "radio spectrum management ... should be removed from the statute books" the editorial goes on to ask, "Is every spectrum allocation decision to be made by using commercial value as a surrogate for the public interest? If so, the danger to Amateur Radio (and a host of other vital services) should be obvious."

The editorial concludes "Auctions as an assignment tool for some radio services, where their use is appropriate, is an idea whose time has come. Auctions as an allocations tool is an idea best left on the cutting room floor.

(Note: Your editor lauds the League for its forthright stand. Not only is auctioning allocations a bad idea, but it might be at odds with the regulatory objectives of the International Telecommunication Union, of which the United States is a member.)

Spread Spectrum

The FCC has just renewed the Special Temporary Authority (STA) that allows unrestricted use of spread spectrum emissions from six meters and up in the amateur bands, according to an item in *W5YI* Report of January 15th, from which the following is taken.

This STA was originally granted three years ago to Robert Buaas, K6KGS, and has been renewed each year. This latest renewal is significant in that it has no expiration date.

Spread spectrum technology can multiplex many low-power QSOs by hopping among frequencies in a list and by combining the data to be transmitted with fast codes. Much of the world's commercial mobile and military communication systems are embracing spread spectrum, especially for cellular systems.

The STA authorizes work with spreading schemes and codes, power levels and various hardware implementations not otherwise permitted by Part 97. Much of the development has been performed with direct sequence and frequency hopping systems in the heavily populated 2 meter band in Southern California, demonstrating robustness and lack of significant interference. K6KGS plans more experiments in the six meter band.

Amateurs from the digital community have long been interested in revising Part 97 to permit more choices for hams in the spread spectrum technologies and codes they may use. We understand that a Petition for Rulemaking to that effect is in preparation.

The FCC renewal says in part: "... the STA and waivers granted May 26, 1993, are extended until completion of your data communications experiments. All other conditions of the May 23, 1993 authorization will remain in effect.

Bill Grenfell, W4GF a Silent Key

William A. (Bill) Grenfell, W4GF, died on January 27, 1995 at the age of 82, after a long illness. Bill was the editor of the FCC Highlights column in *Autocall* from 1971 until the fall of 1991, when he had to give it up due to poor health.

Bill's career with the FCC began in 1940 when he took the examination for Federal Radio Inspector and trained in monitoring techniques at the Portland, Oregon monitoring station. He was then assigned to Seattle, WA as an Assistant Monitoring Officer for the FCC Radio Intelligence Division. In 1941 he was transferred back to Portland as the Radio Inspector. This position covered all classes of radio inspection, including ships, broadcast stations, and Amateurs on occasion.

When World War II came along, Bill joined the Navy as a Lieutenant J.G. He completed his radio and radar training at MIT, where he graduated first in his class, and earned a full stripe. Next came two stripes and a tour of duty at Navy's Bureau of Aeronautics in Washington, DC

In 1946 Bill left military aeronautics and returned to the FCC as a radio engineer assigned to the Commission's Frequency Allocation Division. In 1952 he became Chief of the Amateur Branch of the Amateur and Citizens Radio Division, where he ably guided the course of Amateur Radio in the US until he retired in 1971.

Bill learned the code from the Boy Scout Handbook back in 1926. He was first licensed in 1930 as W7GE. In 1931 he upgraded to a Class A license and got on phone. After earning a BSEE at the University of Oregon in 1935, Bill worked for the Washington State Highway and Police Departments as a radio technician, responsible for all outside maintenance and installation.

Bill's ham activities were legend. His first rig was a 210 oscillator with a slop jar rectifier. With this equipment he was soon an active traffic handler and avid contester and DXer. He took part in five separate DXpeditions to Curacao, and many of us enjoyed his photography and talk shows of these trips. He was a member of the Potomac Valley Radio Club since 1953, serving as Secretary and Treasurer, and then President in 1955. He was a member of the A-1 Operator's Club; the First Class Operator's Club (FOC) and the FOC of England; and held WAC, DXCC and WAZ Awards. He was a Life Member of the ARRL and an Assistant Director of the Roanoke Division; a Life Member of QCWA; President of Washington DC Chapter 23, QCWA; and the first President of Vic Clark (Northern Virginia) Chapter 91 of QCWA. He held an Extra class amateur license; was also an active pilot; held a private pilot's license with instrument rating; and owned his own aircraft.

Those of us who knew Bill mourn an outstanding amateur and a fine gentleman.

Why settle for, a run-of-the-mill call when you can turn heads with a flashy, newfangled one? Here are a few reasons.

You Like My New Call?

By: Jack Troster, W6ISQ, ex N6IQ, QCWA National Director, 82 Belbrook Way, Atherton, CA 94025, 415-854-3939.

Editor's note: In light of the FCC's new Vanity Callsign regulations, it seems only fitting to reprint this classic story written by National Director Jack Troster, W6ISQ. One may wonder if some of us who chose to change our calls may also suffer from an identity crisis, or if, in the long run, it's the smart thing to do.

We reprint this article by Jack through the courtesy of August 1977 QST and the kind permission of the American Radio Relay League.

Incidentally, Jack really did send N6IQ back in to the FCC. Perhaps you may want to apply for it when the opportunity arises.

You monitoring, Charlie? This is N6IQ

"Yeah, I'm always monitoring. Pleased to meet ya, OM. Name is Charlie. Ain't heard you on the channel before."

"Naw, Charlie, this is your old buddy, W6ISQ. Just got me a new secondary call, N6IQ. Ya like it?"

"Ugh. You're one a them fellas, huh. What was wrong with ISQ? You wasn't wearin' it out none workin' DX. Sounds dumb."

"Naw, Charlie, I just thought . . . well, everybody's doing it, ya know."



Besides it's nice and short and snappy. Better for contests. So I asked for this one."

"Since when did your call do you any good in a contest? Not with that signal you got . . . ha!"

"Well look, this call's just about the same as old 'ISQ.' I just dropped a 'dah' in the first letter and dropped three 'dits' out of the suffix. Saves all that keyin' time."

"Hmmm . . . amazing."

"And here how fast I can talk it . . . 'N6IQ N6IQ' . . . that's twice as fast on fone as I could say 'W6ISQ'."

"More fast talkin' is just what we need on the fone bands."

"And look, that 'N' prefix will pull in all sorts a calls . . . everybody will want to QSO an 'N.' Lotsa fun in the contests."

"Another thing, 'IQ' means, ahhhh . . . 'Intelligence Quotient' which is the 'IQ' test for how smart ya are. Pretty clever, eh? The 'IQ' call, I mean."

"Well 'Nothin' Six IQ' don't sound so smart to me. By the way, if you wanta try out that smart new call, I'm hearin' Venkat, VU2KV, on the low end here workin' a pileup."

"Yeah, yeah . . . good. He used to have a lot of trouble copying my 'ISQ' call through the pile. I'll make him the first 'IQ' QSO."

"Stand by, Charlie . . . ahhhh . . . 'Venkat, this is N6IQ N6IQ'."

"K6AQ, this is VU2KV. Good morning, Jim . . ."

"N6IQ N6IQ"

"K6RU, this is VU2KV. Good morning Cam . . ."

"N6IQ N6IQ"

"K6PU, this is VU2KV. Good morning, Ken . . ."

"Ahhhh, Venkat, this is ahhh . . . N6IQ? Ya think he came back to me, Charlie?"

"Naw, just like old times. That 'Nothin Six' call ain't boring no bigger hole over there than the 'ISQ' did. And you say you actually asked for that call?"

"Eh . . . ahhhh . . . Venkat, this is W6ISQ."

"Oh, good morning, Jack. Been looking for you. I think I heard someone signing 'N6' but it didn't sound right. Never heard one before, Must be a phoney. But I can spot the old 'Italian String Quartet' in any pileup . . ."

"Ahhh . . . yeeeah, thanks Venkat. I . . . ahh . . . I once heard one a them 'N' calls . . . they say it's a new kind of Novice call for fellas as can pass the code but flunk the theory . . . Maybe it's the other way. Eeeyeah . . . well, see you in Fresno again sometime . . . 73."

"W6ISQ this is VU2KV . . . 73 . . . QRZed?"

"What I tell ya? That number '6' is about right for your 'IQ.' It's a dumb call."

"Yeah, Charlie . . . but maybe on CW . . . ahhhh . . . say, ya think I could send the N6IQ call back to the FCC?"

"Naw, don't think so. I'd say the FCC was glad to get rid of that one."

"I Quit."



The Commercial Radio License—Do it Before July!

By: Gordon West, WB6NOA, Features Editor, 2414 College Drive, Costa Mesa, CA 92626, phone, 714-549-5000.

If you have been planning to study for the commercial radio operator licenses, better hit the books before this coming July. Major changes in the commercial radio test question pool will turn a relatively easy test into a major brain-thumper. Worse yet, there won't be any study materials for the new test until the end of the year.

The commercial general radio operator's license is the FCC ticket necessary for performing maintenance on marine and aviation two-way radios, as well as the radar endorsement exam necessary for maintaining land and marine radar systems, plus the rules exam for talking over certain ship and aircraft radio systems where passengers are carried for hire.

The commercial radio operator license was originally called radiotelephone-first class license, radiotelephone-second class license, and radiotelephone-third class permit. Back in the old days, the third class ticket allowed you to speak over certain broadcast stations and aboard boat stations. The second class license was necessary to work on boat radios and aircraft equipment, and in the old days the first class ticket was necessary for the adjustment of AM and FM/TV broadcast stations.

In 1984, that all changed—the FCC dropped the requirements for any commercial license to work on land mobile radio equipment, like business band radio, police radio, CB radio, and radio control. They also rolled up the first and second class radiotelephone licenses into a new lifetime general radiotelephone operator license. The third class radiotelephone permit, along with the broadcast station endorsement, was also canned. However, the commercial general radiotelephone operator license (old first or second class ticket) was still required to work on aircraft radios, marine radios, and powerful shortwave broadcast radios. Also, the marine radio operator permit (old third class) was still required by operators aboard boats carrying passengers for hire, and certain aviation and marine shore-side radio stations.

Even though the FCC "delicensed" the need for the commercial radio operator's permit for domestic radios, they were still overwhelmed by the number of applicants wanting to take the exams, plus the fact that the exams were terribly out of date, and major cutbacks in their budget loomed ahead. The FCC needed out, and looked at how well the amateur radio volunteer examination system was handling the requirement for obtaining the amateur radio ticket.

Just one year ago, the FCC turned over the general radiotelephone and radiotelegraph testing business over to "colems"—commercial operator license examination manager organizations. Nine colems would manage the test question pools and begin giving the commercial FCC tests for the following FCC commercial licenses:

Marine radio operator permit, written Element 1
General radiotelephone operator license, Element 1 and 3

First class telegraph license, CW Elements 3 and 4, written Elements 1, 5 and 6.

Second class radiotelegraph license, CW Elements 1 and 2, written Elements 1, 5 and 6.

Third class radiotelegraph license, CW Elements 1 and 2, written Elements 1 and 5.

Global marine distress safety system operator, written Element 1 and 7.

Global marine distress safety system radio maintainer, written Element 1, 3 and 9.

Ship radar endorsement, written Element 8.



Just over a year ago the commercial examinations were turned over to volunteer examiners with a new question pool.

Pictured are the country's first examiners and examinees.

Photo courtesy the author.

It's been over a year since the colems have assisted with coming up with the original test questions for each of these license grades, and a year since the colems have been actively administering the exams. The program has worked superbly with volunteer examiners giving the commercial exams almost everywhere in the country on an almost every-week basis.

The most popular examinations were the general radio operator license with ship radar endorsement. Only one test preparation book was available for the first year that covered every question, every answer, and a description of how the correct answer was arrived at—and I am happy to say that I am the author of that book available through all Radio Shack stores. The book is now in its second printing and still continues to be the *only* source of all of the questions, answers, and a description of how the right answer is calculated.

The radiotelegraph questions were not a big hit because most US ships have dropped radiotelegraph equipment in favor of the new global marine distress safety system satellite gear. So radiotelegraph didn't get much play last year, even though a 6-tape code course specifically for radiotelegraph Elements 1-4 is available from this author (Gordon West, 714-549-5000).

The global marine distress safety system exams were few and far between because there was absolutely no study

material available for the tests, and only a few ships in the United States were looking for GMDSS accredited radio operators.

Without question, the most exams given were for the general radio operator license Elements 1 and 3 along with Element 8 for ship radar endorsement.

The technical question pool for GROL was hastily pulled together due to an extremely short period for colems to develop the initial question pool. The big contributor was W5YI VEC, one of the country's biggest amateur radio test-givers who is also accredited as a commercial colem. Over 80 percent of the Element 3 test questions came out of the

amateur radio Advanced and Extra class question pools. This gave hams who were Advanced and Extra class operators an easy go at re-studying those ham questions, and passing rules and regulations Element 1 and the technical Element 3. Almost all used the Gordon West Radio Shack book.

The radar Element 8 was another matter--the test questions came from all over the place, and some of the test questions were as old as the operator submitting them dealing with ancient radar where images were seen as a horizontal line on an old phosphorous oscilloscope. There were copious mentions of Loran A, and the Loran A navigation system that has little to do with radar was turned off over 20 years ago! And some of the other radar questions were so complex that even your scientific calculator would at times hiccup. Nonetheless, the Gordon West explanations on the radar question pool were developed and are now available from the author (714-549-5000) as the only explanations out there specifically addressed to the present Element 8 radar question pool.

Big Change this July

Despite the FCC getting out of the commercial licensing business, they were still responsible for seeing that the question pools were indeed valid and best reflect the subject material, and the FCC was also the only agency issuing the actual license once the test results were turned in to them in Gettysburg, Pennsylvania. They received so many comments from marine radio and aviation radio technical experts that the Element 3 was nothing more than a re-warmed ham test, they decided to let colems and all interested parties review *all* of the test question pools; send in

their comments, complaints, and suggestions for better questions; and *change* all of the question pools this coming July 1995.

This July all of the written commercial question pools will reflect new updated questions. Most of the Element 3 amateur radio questions will be thrown out, and new brain-busters introduced. Element 1 rules won't change much because rules are rules. The Element 8 radar questions will be completely revised, and their complexity will probably remain the same if not slightly reduced in necessary calculations.

Radiotelegraph written exams and GMDSS written examinations will change slightly, but nothing will change as

Table 1 (courtesy Master Publishing, Inc.)

Commercial Radio Licenses — Examination Requirements			
License Class	Test Element	Type of Examination	Pass ³
Marine Radio Operator Permit (MROP)	Written Element 1	24-question written examination	18
General Radiotelephone Operator License (GROL)	Written Element 1	24-question written examination	18
	Written Element 3	76-question written examination	57
T-1 — First Class Radiotelegraph Operator Certificate - 1st R/T (Must be 21 years old and have 1 year of experience)	Telegraphy Element 3 ²	20 code groups (CG) per minute	
	Telegraphy Element 4 ²	25 plain language (PL) words per minute	
	Written Element 1	24-question written examination	18
	Written Element 5	50-question written examination	38
T-2 — Second Class Radiotelegraph Operator Certificate - 2nd R/T	Written Element 6	100-question written examination	75
	Telegraphy Element 1 ²	16 code groups (CG) per minute ⁴	
	Telegraphy Element 2 ²	20 plain language (PL) words per minute ⁴	
	Written Element 1	24-question written examination	18
T-3 — Third Class Radiotelegraph Operator Certificate - 3rd R/T	Written Element 5	50-question written examination	38
	Written Element 6	100-question written examination	75
	Telegraphy Element 1 ²	16 code groups (CG) per minute ⁴	
	Telegraphy Element 2 ²	20 plain language (PL) words per minute ⁴	
GMDSS Radio Operator ¹ (GMDSS/O)	Written Element 1	24-question written examination	18
	Written Element 7	76-question written examination	57
GMDSS Radio Maintainer ¹ (GMDSS/M)	Written Element 1	24-question written examination	18
	Written Element 3	76-question written examination	57
	Written Element 9	50-question written examination	38
Ship Radar Endorsement (RADAR)	Written Element 8	50-question written examination	38
Six Months Endorsement (Must hold First or Second Class Radiotelegraph Operator's Certificate)	No examination requirement, but requires a minimum of six months service as a radio operator aboard a U.S. ship.		
Restricted Radiotelephone Operator Permit	No examination requirement, but holder must be eligible for employment in the U.S., be familiar with radio law, be able to keep a log and be able to speak and understand English.		

Notes:

1. The Global Maritime Distress and Safety System (GMDSS) is an automated ship-to-shore distress alerting system using satellite and advanced terrestrial communications systems. GMDSS basically replaces Morse code communications which is being phased out as a maritime distress communications medium.
2. Passing telegraphy examination requires copying CW (Morse code) for one minute without error.
3. Number of correct answers to pass examination.
4. Amateur Extra Class operators automatically receive credit for this element examination without testing.

much as Element 3. And Element 3 is the big one that is required for most of the other licenses, and Element 3 is the main question pool for the general radio operator's license.

The new question pool won't be released to the public until a few weeks before the new questions go into effect. When the new pool is released, it will take book publishers, including yours truly as an author, time to review the questions, come up with an explanation of the correct answer, and publish the book by December of this year. There won't be many folks passing the GROL from July to December without proper study materials, and it takes at least 6 months for study materials to get into stores throughout the country.

Best Advice—Test Now

The question pools won't rotate until July of this year. If ever you wanted to test for the written based on amateur radio-type questions, now's the time to do it. In one month a licensed ham could get up to speed on passing the test. In about 60 days, the radio enthusiast could get through the books and prepare for the test without much problem.

Radio Shack anticipates a sell-out of their remaining stock of current GROL test preparation books written by yours truly, along with Fred Maia, W5YI. They believe, as Fred and I do, that there will be a literal run for the books as being the only ones in the country that reflect the present test question pool, and folks throughout the country will want to take the test before the exam gets infinitely more complex.

So if ever you wanted the commercial general radio operator's license, Elements 1, 3, and 9 should be taken before July with the study materials along with a description of how the correct answers were arrived at in a Q and A and description format.

If you can't locate the study materials near you, contact Gordon West Radio School, 714-549-5000, Monday through Friday, 10:00 AM to 4:00 PM. Speak directly with me so we can get you up to speed and through the tests before the major summertime change.

73 de Gordon West, WB6NOA.

QCWA JOURNAL Book Review:

Lew McCoy on Antennas

By: Lew McCoy, W1ICP, ISBN: 0-943016-08-8, 107 pages.

Reviewed by: Mark Perrin, N7MCA, 55 Coachman Dr., Eugene, OR 97405.

Well, this is the first attempt to review a book as an amateur, and risk the criticism that can come from opening one's yap! But when I talked enthusiastically to Big Jim Walsh about Lew McCoy's new book, *Lew McCoy on Antennas*, he drew down on me and forced me to the computer where I am writing this now. The pistol is small, but well oiled and you just never know about people!

What got me in trouble with Big Jim was my comment that I had read Lew's book (well, I don't know Mr. McCoy, but what read by and about him, I am guessing that is the way he prefers to be addressed) cover to cover twice and was getting ready to read it again and this time mark it up and take notes.

This is a great introductory book for the newcomer, or the amateur looking for a good reference source on antennas, for experimenting with wires, or looking for some information about antennas that are unfamiliar, or just general reading on antennas. And hey, there are specific recommendations on types of antennas, brand names, and Lew's experiences with the antenna or the antenna problem.

Now I have read any number of books and articles on antennas. From the beginning, I have found antennas and antenna problems the most interesting part of the hobby. With a small lot filled with tall fir trees, you name a wire antenna and I have either used it or considered it,

My wife likes to travel to the coast and walk the beaches. Not my favorite travel spot, until I learned about

end-fed long wires, the Transmatch, and how effective one can operate from a motel room on the second floor, or even better, the coastal motel with a flag pole just outside the room door.

OK OK, Walsh says to get to reviewing and quit yapping. Well, first of all, the book is arranged in the correct manner; i.e. first things first, starting with well written chapters on antennas, SWR, what matching and modern transceivers are all about, transmatches, and then the specifics of specific types of antennas. And that is from wires to dipoles to beams to mobile antennas.

You say you have an interest in a particular type of antenna or type of installation problem? Well, there is either good information waiting for you, or a reference to other publications for information. My current interest is in quads, and you will find lots of practical background information of quads in the book, including an article on a SQUAD developed by Paul Carr, N4PC.

The best aspect of Lew's book for me, is that he regularly drops in his practical thoughts on a real life solution to an antenna problem, and veritable nuggets by someone who has forgotten more than I will ever know on antennas.

Hey. Get this book and read it... and read it again.... and again! This is a permanent addition to your antenna library.

73 de Mark, N7MCA.

A Part Of History

By Perry Brittain, VP2MR/W5STI, 928 Pavillion St., Dallas, TX 75204.

Many of us never get to look beyond the comfortable, congenial facade or the casual camaraderie of our fellow members of QCWA. But the very nature of our organization makes it special. All of our members have contacted hams all over the world, and many of them have been all over the world. All been a part of history.

It was a daylight mission. The B-17 had just completed its bombing run and had turned toward home base. It was a rough ride because of the thick flack from the anti-aircraft guns positioned for miles around the heavily fortified target. The bomb-bay doors were still open, because shortly after the "bombs away" call from up in the nose, the intercom had crackled with an urgent "two still hanging in the racks" shouted by the radio operator. The pilot leveled out as best he could in the turbulence of the frequent, too-close bursts of the flack. "Better go check it out, Dave," he calmly ordered the bombardier navigator over the intercom.

Unplugging the heating cables from his bulky flight suit, Dave began sweating a little in spite of the minus 55 degree temperature in the unheated aircraft. He knew what he was about to face. He disconnected from the main oxygen supply, connected a portable oxygen bottle to his face mask, squirmed out of his cramped position at the bombsight and made his way back to the bomb bay.

Dave's heart skipped a couple of beats, for just as reported, there were two 500 pound self-arming bombs hanging from nose shackles, with fins down, swinging in the slipstream and the turbulence. He looked closely at the small props back in the fin structure. Both were spinning, and no doubt had been spinning since the attempted release! Those were the arming devices, normally changing the bomb from a deactivated state to a contact explosive *after* the bomb was on its way down—the small propellers set in motion as the bomb fell and arming after a preset number of revolutions.

Dave was certain that those props had been spinning in the slipstream too long. The bombs were activated—and deadly! They had to be released. Their B-17 had received flack damage on virtually every mission, and one small piece of flack hitting one of those bombs would blow them out of the sky. Even if they made it through without some kind of impact, they couldn't land in that condition.

Dave stood at the edge of the huge open bay and looked at the steps leading down to the small, narrow catwalk running the length of the bomb bay between the racks. He had walked it many times before, but not at this altitude with the bomb bay doors open, and not with the bulky flight suit, flack vest, and certainly not with the plane buffeted by severe turbulence.

But there was no time to ponder the problem. Dave took off his thick gloves, grabbed a screwdriver, and hanging on for dear life, edged his way along the catwalk to the bombs. With his heart in his throat, he managed to release

first one, and it fell clear of the rack! He quickly turned and repeated this maneuver on the other, and it also fell in the clear.

Dave then sat down on the catwalk and watched them fall, finally exploding harmlessly on farmland far below. He signaled for the bomb bay doors to be closed, and for the first time in what had seemed an eternity, he relaxed a bit and realized that he had better get back to the heating cables before that sweat froze!

The remainder of the mission was uneventful, and when their B-17, the "Heavenly Body", touched down at the home base of the 612 Squadron, 401 Bomb Group, the crew had chalked up one more of the 35 missions they ultimately completed.

This mission was in September 1944. Of the original crew, four are still around. Dave and the copilot returned to England in 1994 for a 50th Anniversary reunion of the Eighth Air Force, and all four of the living crew hope to meet together in San Diego in 1996.

There is much more about Dave that could be chronicled. A native Bostonian, he entered Harvard in 1940, and while there he met a pretty girl named Jeanne from Skidmore College. They were married in April, 1944, six months before the "catwalk" experience. He returned to Harvard after the war and graduated in 1947. He had a long, successful career with the Bell system, working with New Jersey Bell, Northwest Bell, and AT&T.

Dave has had a longer, successful career with Jeanne. They celebrated their fiftieth wedding anniversary in 1994.

Where is Dave now? Well, if you happen to attend the Central New Jersey QCWA Chapter 138 meeting, Dave might be that friendly guy sitting next to you.

David Benton was first licensed in 1938 as WILKG. He became W2WSE in 1947 and still holds that call. He has also been licensed as EI4VGA, ZF1DB, ZF2OY, VP9/W2WSE, and still holds the call VP2MDB. So you can see that he is a very active radio amateur who has enjoyed being on the DX end of pileups.

Dave is not a typical member of QCWA, because there are no typical members! That fundamental requirement for membership—25 or more years of ham radio—means that every member has been a part of history. Every member of QCWA has a store of experiences that have helped to shape our hobby, our government, or our educational system, or our business environment, or many other aspects of our society.

Wouldn't it be fascinating to get some insight into some of the experiences that each of our fellow QCWA members have been through? Look around at your next Chapter meeting. There may be several of those familiar faces that have "Dave" stories to share. They are a part of: history!

73 de Perry Brittain, VP2MR/W5STI.

CQ DX

By: Chip Margelli, K7JA, DX Editor, 6652 Cerulean Avenue, Garden Grove, CA 92645

Springtime on the Bands

It's a great time for DX!

Whether you're on RF or VHF, the spring season is usually a prime time for working DX. After a long winter, when you've been cooped up inside the house, the longer days and bursts of sunshine may draw you outside, and that's OK. But there's entertainment awaiting you when you come back into the shack, thanks to seasonal factors.

HF

Around the Spring Equinox, sunlight is illuminating the earth in a rather symmetrical manner. Instead of favoring the Northern or Southern Hemisphere, the sun is pounding directly down on the equator. This means that northerly and southerly polar paths are evenly bathed with the solar radiation that causes the F-layer to become ionized (thus creating HF propagation opportunities), and it also means that just about everyone in the world has the same amount of daylight and darkness. It's a stable time of year, and it leads to some great DX paths.

Unlike the middle of the summer season, the ionosphere is not cursed by D-layer absorption caused by intense solar radiation hitting the atmosphere. And unlike the middle of winter, there is sufficient daylight to allow the ionosphere to get "jump started." Those wonderful Long Path openings on 40 and 20 can really get into high gear, bringing exotic Middle Eastern and African countries into your receiver with booming signals. Even 80 meters gets into the act; many West Coast DXers find that the best Short Path European openings happen in March and April, before the summer thunderstorms get into high gear.

It's just like the story of "The Three Bears"; "Not too hot, not too cold, but just right."

VHF

Although our illustrious Editor, Joe Lynch, is very much the expert in this regard, I hope he'll grant me the liberty of offering encouragement about the Springtime DX opportunities on VHF.

While tropospheric ducting openings can happen at any time, it seems as though the March and April time frame offers some of the best statistical chances for working DX. This is because of the tendency for large, stable air masses to form, creating ideal conditions for the formation of inversions (and the accompanying ducting phenomenon which can propagate VHF and UHF signals over long

distances). With winter storminess decreasing, there is less turbulence to disrupt the formation of ducts, and the stage is then set for some DXcitement on the VHF bands

The Gulf of Mexico is a frequent site of such openings. Paths from Texas and Louisiana to Florida and Cuba are not unusual on 144 and 432 MHz, nor are North-South paths along the Mississippi River. The fun of tropospheric propagation is that gigantic power and antennas are not necessary; I have worked from my Los Angeles area QTH to Hawaii on 432 MHz, running 25 watts and a small (6' long!) 12-element Yagi clamped to a flagpole in my back yard. The trick is to be on the lookout for the propagation (by watching Amateur CW beacons or "oddball" weather channel FM stations), and be the first one to get established on a good frequency before the "pack" wakes up.

Utilize weather fax printouts (available on HF) or just the evening weather report on TV to be alerted to potentially favorable weather conditions. Then get on, point your (however small) beam in the direction of interest, and call "CQ" for a while. Nobody will know if the band's open if everybody is listening, and nobody's transmitting

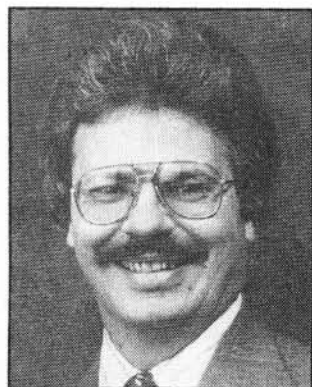
Once you've worked all the tropo DX, take a deep breath—the Sporadic E season is just a few weeks away.

In Closing

With summer just around the corner, DX conditions should be excellent on 20, 17, and 15 meters, possibly extending up to 12 and 10 meters. The much-ballyhooed decline of the 11-year sunspot cycle is, as I've noted in a previous column, simply an opportunity to benefit from the departure of the lazy DXers who expect loud DX signals to be dished up to them on a silver platter. . . the pile-ups are a lot smaller these days!

So before you give in to the temptation of spending your days in the back yard sipping on Mint Juleps, enjoy an extra helping of DX. It's there for the picking, and it's yummy as ever!

73 de Chip, K7JA.



Yaesu Plans Second Cruise

Once again, Yaesu is taking to the high seas for a week of DXcitement on board Dolphin Cruise Line's SS Ocean Breeze, departing Aruba on June 18th with stops in Dominica (J7), Barbados (8P), Martinique (FM), and Curacao (PJ) before returning to Aruba on June 25th. Join a world-renowned slate of headline speakers and your fellow Hams for sumptuous cuisine, Amateur Radio fellowship, and fun in the sun! It will be a week you'll never forget!!!

DX-Caribe Cruise '95 Highlights

Maritime Mobile operation on board the Ocean Breeze while in international waters. Optional shore excursions with "Field Day" style DX-pedition stations on HF, 6 meters, satellites, and 2-meter

moonbounce using the latest in Yaesu equipment. Operate Field Day from Curacao! Nightly presentations by Roger Balister, G3KMA (Director of the IOTA Program), Rusty Epps, W6OAT (YK0A Syria Expedition), Gordon West, WB6NOA (renowned instructor/writer), and Yaesu staff, including QCWA Journal DX Editor Chip Margelli, K7JA. Workshops on DX-pedition operating techniques, OSCAR operation, and the latest Yaesu products. "Radio Olympics" while at sea—pit your radio skills against your fellow Hams in a fun-filled competition where everybody wins! For details on the DX-Caribe Cruise '95, contact Landry & Kling, Inc., 1390 South Dixie Highway #1207, Coral Gables, FL 33146, or call Landry & Kling at (800) 448-9002. Outside USA, FAX for information at (305) 661-0977.

QCWA Journal

Silver Belles

By: Carol King, K5CPZ, YL Editor, P. O. Box 73, Oklahoma City, OK 73101, phone 405-524-6216, fax 405-528-0746.

Met Gladys Chase, W1VPF, our newest QCWA Board member.

Gladys grew up in Sturbridge, Massachusetts with two wonderful sisters, a loving mother who emigrated from England as a war bride, and a brilliant father who was the Director of Continuing Schools in Southbridge, Massachusetts.

After high school, Gladys graduated from Becker College and was Secretary to the General Sales Manager at Harvey-Wells Electronics in Southbridge. This company employed many ham radio operators. In fact, the president, vice-president, and chief engineer were all hams. There, she met Harold Chase, W1EES, who was Chief Draftsman in the Product Design Department. After dating for one and one-half years, they decided to get married, and were blessed with a son and a daughter.

When Gladys was expecting their daughter, Cynthia, she decided to join Harold in his hobby in 1952. She received her call, W1VPF, and lo and behold—it occurred to Harold that she was indeed “one very pregnant female.” To this day, that is how some people remember her call!

Shortly after receiving her license, Gladys joined the Women Radio Operators of New England (WRONE) radio club as a charter member.

A short time later, Harold was offered a position north of Boston where they enjoyed life for many years. Subsequently they moved to the Hartford, Connecticut area where she was employed by Stanadyne as Personnel Supervisor for eight years. Afterward she was promoted to the position of Executive Secretary to the President and Chairman of the Board.

While at Stanadyne, Gladys joined the Hartford Industrial Management Club and became the first woman president in its forty-year history.



Gladys Chase, W1VPF, QCWA's newest National Board member, is proving to be "One Very Popular Female".

Photo courtesy W1EES..

Besides working, Gladys was also involved in several activities while their children were growing up—activities such as Den Mother for the Cub Scouts.

After being the executive secretary for 12 years, Gladys decided to take an early retirement.

Gladys and Harold have traveled extensively since 1963, when they visited England for the first time with their children. Since then they have made 15 other trips there to visit relatives, as well as almost every country in Western Europe, the Canary Islands, Alaska, Hawaii, and Australia. As this article about Gladys is being prepared, she and Harold are preparing to travel in Portugal.

Gladys and Harold have been active in local chapters of QCWA. They are charter members of Nutmeg and Pioneer, as well as members of Yankee, where she is presently the Treasurer. She was also the first Activities Manager of Nutmeg. Harold is a past president of Yankee, Nutmeg, and is the current President of Pioneer.

As a director of QCWA, Gladys expects to be busy helping as a committee member. Also, she is the Chairman of the National Convention which will be held this year in October in Manchester, New Hampshire. She is hoping that the attendance will be great and that she will be able to make many new friends.

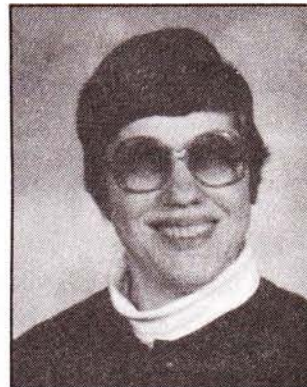
Gladys and Harold live on the shore of Lake Congamond which borders both Connecticut and Massachusetts. This beautiful lake is enjoyed year-round by ice skaters, ice boaters and ice fishermen in the winter as well as by water skiers and swimmers in the summer. The only drawback to this location, according to Gladys, is that she and Harold have limited space for a decent antenna, which accounts for their weak signal.

Eating desserts is an activity that Gladys truly enjoys. When she goes through a buffet line, she chooses the desserts first. She justifies this activity by telling herself that one needs to eat desserts first because life is uncertain. Thanks to Gladys, perhaps we can have an extra dessert at a QCWA meal in her honor.

We extend our best wishes to Gladys, who will be a very valuable Board member. Now that she is on the Board, her call sign phonetics might change from one very pregnant female to one very popular female. She is indeed a very delightful YL

73, 88, es 33 de Carol King, K5CPZ.

Late word: Gladys's son, Harold III, is now N1URW. Congratulations and best wishes to him!



Ham's Health

By: Dr. Dub George, WA5BFF, 4100 Big Bend, Port Arthur, TX 77642, Home Phone: (409) 982-4442, Office Phone: (409) 983-5145, Fax: (409) 983-6519, Internet: dubgeorge@delphi.com.

Several of my friends from our Saturday morning Ham breakfast group asked me to talk about Alzheimer's disease. Some of them who are caring for elderly parents are having to deal with this problem. Many of us are reaching the time in our lives when we may have the responsibility for caring for someone with this problem.

Dementia

Alzheimer's disease is one of the most common of a group of conditions known as dementia. It is the loss of the ability to think, remember and reason to such a degree that it interferes with daily functioning. Dementia is not a specific disease itself; rather it is a group of symptoms that may be caused by certain diseases or conditions. The most well known causes of dementia are Alzheimer's disease, multi-infarct dementia, Huntington's disease, Pick's disease, Creutzfeldt-Jakob disease and Parkinson's disease. Among other conditions that may cause or mimic dementia are depression, nutritional deficiencies, drug reactions, head injuries, hydrocephalus, infections and thyroid disorders.

Alzheimer's Disease

This is the most common of the dementias recognized today—affecting up to 4 million Americans. It is a progressive, degenerative disease that attacks the brain, impairing memory, thinking and behavior. Symptoms of Alzheimer's disease include a gradual memory loss, declining ability to perform routine tasks, disorientation in time and space, impairment of judgment, personality change, difficulty in learning and loss of language and communication skills. The rate of progression varies among individuals. After the onset of symptoms the life span of an Alzheimer's victim can range from 3 to 20 or more years. The disease eventually leaves its victims unable to care for themselves. The cause of the Alzheimer's disease is unknown and an absolute diagnosis can only be made by microscopic examination of brain tissue, usually at autopsy.

This disease will be discussed in greater detail later in the article.

Multi-infarct Dementia

Multi-infarct dementia is a deterioration of mental function caused by multiple strokes (infarcts) in the brain. Its onset tends to be more sudden than Alzheimer's; however, the strokes may damage many small areas of the brain before becoming evident and therefore may mimic Alzheimer's disease. While this disease may not be reversible, if its underlying cause (such as high blood pressure) can be treated, the progression of the disease may be modified. Multi-infarct dementia is usually diagnosed through a careful neurological examination combined with brain imaging techniques such as computerized tomography (CT) or magnetic resonance imaging (MRI).

Parkinson's Disease

Parkinson's disease is a progressive disorder of the central nervous system that affects more than one million Americans. It is characterized by tremors, stiffness, speech impediments and difficulty initiating physical movements. Late in the course of the disease some patients develop dementia. The disease is due to a lack of the chemical dopamine.

Medications such as levodopa, which is converted into dopamine in the brain, and deprenyl, which prevents further degeneration of dopamine-containing nerve cells, are beneficial in reducing the tremor in patients with Parkinson's disease. Unfortunately, they do not help the mental changes in this condition.



Huntington's Disease

Huntington's disease is an inherited, degenerative disease affecting the mind and body of more than 25,000 Americans. It usually doesn't make its appearance until mid-life, when it causes intellectual decline along with characteristic irregular and involuntary movements of the limbs or facial muscles. Other symptoms include personality change, memory disturbance, slurred speech, impaired judgment and psychiatric problems. It may be diagnosed by family medical history, recognition of typical movement disorders and CT brain imaging. A specific chromosome abnormality has been identified. Although there is no treatment available to stop the progression of the disease, the movement disorders and psychiatric symptoms can be controlled with medication. The best known among the victims of this disease is folk-singer Woody Guthrie. It appears that his son Arlo has been spared the tragic legacy.

Creutzfeldt-Jakob Disease

Creutzfeldt-Jakob disease is a rare, fatal brain disorder caused by an unidentified transmissible infectious organism, probably a virus. Early symptoms include failing memory, changes in behavior and lack of coordination. As the disease progresses—usually rapidly—mental deterioration becomes pronounced, involuntary movements appear and the patient may develop blindness, weakness of the arms or legs, and ultimately lapse into coma. Like Alzheimer's disease, a definitive diagnosis of Creutzfeldt-Jacob disease can be made only through examination of brain tissue, usually at autopsy.

Pick's Disease

Pick's Disease is also a rare brain disorder that, like Alzheimer's disease, is usually difficult to diagnose.

Disturbances in personality, behavior and orientation may precede and initially be more severe than memory defects. Like Alzheimer's disease, a definitive diagnosis is usually obtained at autopsy.

Normal Pressure Hydrocephalus

Normal pressure hydrocephalus is an uncommon disorder involving an abnormality in the flow of cerebro-spinal fluid resulting in a buildup of the fluid on the brain. Symptoms of this condition include dementia, urinary incontinence and difficulty in walking. Normal pressure hydrocephalus may be caused by several factors including meningitis, encephalitis and head injury. It is usually diagnosed by CT or MRI. Early diagnosis may result in improvement by a neurosurgical procedure, insertion of a shunt to divert the excess spinal fluid away from the brain.

Depression

Depression is a psychiatric disorder characterized by sadness, inactivity, difficulty in thinking and concentration, feelings of hopelessness and sometimes suicide. Severely depressed individuals may appear to have significant dementia. Individuals with dementia may also develop depression that can exaggerate their intellectual deterioration. Depression, whether present alone or in combination with dementia, can be reversed with proper treatment.

Other Causes

Other causes of dementia (some of which are reversible) that should be considered are thyroid imbalance, nutritional deficiencies, drug toxicity (including alcohol) or interactions, brain tumor, chronic subdural hematoma (collection of blood between the brain and skull) and other chronic central nervous system infections such as syphilis or AIDS.

Diagnosis of Dementia

It is difficult to talk about the memory problems of Alzheimer's disease without beginning to reflect a little on one's own less than unfailing memory. In my personal experience of caring for patients in the same community for over thirty years, offhand I can't recall a single individual among all of those who have come to me fearing they might be developing Alzheimer's disease who was actually suffering from the disease. Most were just experiencing normal aging or were depressed. Unfortunately, I can remember many who at the end of an annual checkup mentioned in passing that their spouse was starting to have problems with their memory. Over the next several years I would see the problem slowly progress as their loved one developed the obvious picture of Alzheimer's disease.

In a pamphlet entitled *Is It Alzheimer's?* the Alzheimer's Association discusses these "ten warning signs".

- *Recent Memory Loss That Affects Job Skills*
It's normal to occasionally forget assignments, colleagues' names, or a business associate's telephone number and remember them later. Those with a

dementia, such as Alzheimer's disease, may forget things more often, and not remember them later.

- *Difficulty Performing Familiar Tasks*
Busy people can be so distracted from time to time that they may leave the carrots on the stove and only remember to serve them at the end of the meal. People with Alzheimer's disease could prepare a meal and not only forget to serve it, but also forget they made it.
- *Problems With Language*
Everyone has trouble finding the right word sometimes, but a person with Alzheimer's disease may forget simple words or substitute inappropriate words, making their sentence incomprehensible.
- *Disorientation of Time and Place*
It's normal to forget the day of the week or your destination for a moment. But people with Alzheimer's disease can become lost on their own street, not knowing where they are, how they got there or how to get back home.
- *Poor or Decreased Judgment*
People can become so immersed in an activity that they temporarily forget the child they're watching. People with Alzheimer's disease could forget entirely the child under their care. They may also dress inappropriately, wearing several shirts or blouses.
- *Problems With Abstract Thinking*
Balancing a checkbook may be disconcerting when the task is more complicated than usual. Someone with Alzheimer's disease could forget completely what the numbers are and what needs to be done with them.
- *Misplacing Things*
Anyone can temporarily misplace a wallet or keys. A person with Alzheimer's disease may put things in inappropriate places: an iron in the freezer, or a wristwatch in the sugar bowl.
- *Changes In Mood Or Behavior*
Everyone becomes sad or moody from time to time. Someone with Alzheimer's disease can exhibit rapid mood swings—from calm to tears to anger—for no apparent reason.
- *Changes In Personality*
People's personalities ordinarily change somewhat with age. But a person with Alzheimer's disease can change drastically, becoming extremely confused, suspicious, or fearful.
- *Loss of Initiative*
It's normal to tire of housework, business activities, or social obligations, but most people regain their

initiative. The person with Alzheimer's disease may become very passive and require cues and prompting to become involved.

If you recognize these symptoms in someone close to you they deserve further evaluation. The symptoms may develop so gradually and the person may seem so physically healthy that it is difficult to believe that they are ill. Frequently, both the individual and family members may deny the problem because the possibility of Alzheimer's can be so frightening. However, depending upon the cause, the dementia may be reversible. The sooner a correct diagnosis can be made, the more you can plan for the future and manage the present.

A good place to start is with the family physician. A complete evaluation should include a detailed medical history provided by the patient and someone who is well-acquainted with the patient. This should be followed by a thorough physical and neurological examination. Some form of mental status testing should be done to evaluate orientation, attention, recent recall and the ability to read, write, calculate, name, copy drawings, repeat, understand and make judgments. A psychiatric assessment may be needed to rule out psychiatric disorders. Laboratory studies, including blood chemistries, chest x-ray, electroencephalography (EEG), computerized tomography (CT scan) and EKG should be performed. Other studies should include tests to exclude other causes of dementia such as vitamin deficiency, thyroid disease, syphilis and AIDS.

While none of these tests alone can make the diagnosis of Alzheimer's disease, when their findings are considered together they may identify or eliminate other potential causes of dementia.

Legal and Financial Planning.

When the diagnosis of a dementia such as Alzheimer's disease is made, an attorney should be consulted to arrange for such planning tools as: power of attorney, to empower someone to act on the individual's behalf; a will; a living trust, to appoint a trustee to manage the individual's assets; and a living will, to provide direction on how to make future medical decisions. Other topics include guardianship, property ownership and taxes. Financial planning is also essential to consider in-home assistance, a nursing home or a hospice. As much as possible, the person with Alzheimer's disease should be involved in the planning. It is wise for all of us to consider making a living will before it is needed.

Treatment

In September of 1993 the FDA approved Cognex (tacrine) for use in patients with mild to moderate Alzheimer's disease. While the drug may improve the memory in some patients it has not been found to alter the progression of the disease. The drug is potentially toxic to the liver and requires frequent monitoring by blood tests to be used safely.

Drugs that are commonly used to treat neuro-psychiatric disorders are often tried on Alzheimer patients who exhibit such behavioral symptoms, with varying degrees of success. A great deal of progress has been made in the

development of non-drug treatments for behavioral symptom, such as regular scheduled activity. During the early stages of the disease encouraging tasks requiring motor skills (music playing, dancing, card playing, typing, drawing) can help to make the days more pleasurable to the patient and less frustrating to caregivers. Strategically placed cue cards around the house can help patients orient themselves and carry on tasks related to their self-care. Such simple measures as labeling the bathroom door may be helpful.

Long Term Care

Of the approximately 4 million Americans with Alzheimer's disease 70% are cared for at home by family and friends while the other 30% occupy half of the nation's nursing home beds.

The decision to provide home care for the Alzheimer's patient requires the caregiver to have the practical and emotional assistance of others as well as sufficient financial resources. Patients who qualify for Medicare assistance may utilize the aid of one of the many formal home health nursing services that are available.

Caring for a person with dementia is a physically and emotionally exhausting job that can isolate the caregiver from the much-needed support and assistance of friends and family. Feelings of anger, fatigue, helplessness, grief or loneliness are normal and need a constructive outlet. The caregiver should not hesitate to ask their family and friends for help. These people often want to provide assistance but are unsure whether their concern might be an intrusion.

One of the best sources of help is the Alzheimer's Association. There are over 200 Chapters and 1500 support groups nationwide, where family members of patients with Alzheimer's disease or a related disorder share their experiences, provide each other with emotional support, hear practical suggestions and learn to rebuild their lives. To locate a Chapter near you or to request more information on the subject call their toll free number, 1-800- 272-3900.

Everyone has their limitations. At some point the patient's needs may be more than a caregiver can handle, or a behavior problems, such as wandering, may place them at undue risk. The time may come when the patient must be placed in a long-term facility such as a nursing home. By acting responsibly in making decisions about care, the caregiver is not abandoning their loved one. Their time and devotion will continue to make the patient's life better wherever he or she lives.

For more information concerning Alzheimer's Disease I recommend a book, *The 36-Hour Day* which explains dementia and provides practical advice for dealing with many of the frustrating problems created by a family member with dementia. The book is available for \$9.95 from the Alzheimer's Association, Office Services, 919 North Michigan Avenue, Suite 1000, Chicago, IL 60611-1676. The price includes postage and handling in the USA. They accept checks and money orders made out to the Alzheimer's Association.

73 de Dr. Dub George, WA5BFF

Amateur Radio Satellite News

By: Keith Pugh, W5IU, Vice-President, Operations, AMSAT-NA, Satellite Editor, 3525 Winifred Dr., Ft. Worth, TX 76133, phone, 817-292-5633, Internet: 76177.3306@compuserve.com

On Christmas night, 1994, the Russians presented the world with a Christmas present - another Amateur Radio Satellite, RS-15. This new "bird" was launched at 0300 UTC on 26 December, 1994, from the Baykonur Space Center on board a old SS-19 missile (first and second stages) and a new "Briz" (third stage). This issue will be largely devoted to the story of RS-15's launch and first three months in orbit.

RS-15, Physical Description

RS-15 is a one meter diameter sphere weighing approximately 70 kg. It utilizes the same spaceframe as the RS-3 through RS-8 satellites launched years ago. The electronic payloads include the transponder, two radio beacons, a CW broadcast bulletin board, a remote control system, and the telemetry system. No stabilization or orientation systems are included. All onboard electronic equipment was designed and built by a group of radio amateurs from Kaluga town (180 km Southwest of Moscow) under the leadership of Aleksander Papkov. The control station for RS-15 is RS3A, located in Moscow, under the direction of Leonid Maksakov.

The RS-15 bandplan follows:

Uplink: 145.858 to 145.898 MHz at approximately 100 Watts EIRP.
Downlink: 29.354 to 29.394 MHz at up to 5 watts.
Beacon 1: 29.3525 MHz at 0.4 to 1.2 Watts.
Beacon 2: 29.3987 MHz at 0.4 to 1.2 Watts.

The antennas are simple dipoles. With no stabilization system and dipole antennas, the spin modulation can be significant.

The Orbit

RS-15's orbit is unique among Low Earth Orbit (LEO) satellites. In the first place, it's altitude is approximately 2000 km or two times as high as RS-10 or RS-12. In the second place, it's orbital inclination is approximately 64.8 degrees. These two characteristics combine to produce orbits that are in view for approximately 25-30 minutes per pass. Approximately seven passes in a row are usable from 32.5 degrees North Latitude. DX opportunities are fantastic. From Ft. Worth, TX, mutual windows are available to Western Europe as far east as Moscow, Russia. To the South, coverage extends to Buenos Aires, Argentina. To the West, coverage extends to the Pacific Islands. Windows of 5 to 6 minutes duration are common to most of Western Europe.

The Ground Station

Your ground station for RS-15 can be very simple. Ideally, it will consist of an all mode two meter rig and a ten meter receiver. RS-15 has a narrow (40 kHz wide) linear

transponder with a very limited power budget; therefore, CW and SSB are the preferred modes of operation through the transponder. Of course other options are available. A ten meter transmitter with a transmit converter up to two meters will work quite well and even a two meter FM rig can be used for CW if you disconnect the microphone and key the push to talk line. Please keep the power down to the minimum required for the QSO. (25 to 50 watts should be sufficient for most passes with average antennas). A pre-amplifier ahead of the ten meter receiver will prove to be helpful, particularly if you have an older receiver.

Ground station antennas play a very important part in a successful RS-15 operation. Remember this satellite is twice as high as our other Mode A "bird" RS-10. It also does not run as much power since it is an independent satellite. The old adage "if you can't hear them, you can't work them" takes on new meaning. I would highly recommend using a ten meter beam, steerable in azimuth, when the satellite is at low elevation angles (greatest distance from your QTH). As RS-15 approaches higher elevation angles (above 30 degrees elevation) a low mounted (ten feet) Turnstile or a low one wavelength horizontal loop will outperform the ten meter beam. Of course the ten meter beam could be mounted with both azimuth and elevation drives, but this is not usually practical. Other combinations of antennas will work but not as well. I use a Turnstile mounted at approximately ten feet above ground and sticking through the short tower used for my other satellite antennas.

For the two meter uplink, a two meter circularly polarized Yagi, steerable in azimuth and elevation, is obviously best, but the old "Silicon vs Aluminum" trade off can be done. This means that you can run more power to something as simple as a two meter vertical. Other omnidirectional antennas such as the Egg Beater, the Turnstile, and the Lindenblad will work well also.

Initial Tracking Problems

With multiple satellites being launched from a common launch vehicle, confusion usually reigns for a week or two while NASA/NORAD (with the help of dedicated observers) sort out the identity of each satellite and publish correct Keplerian Data for each "bird." The RS-15 launch should have been much simpler since we were told that it was the only payload to account for and the only other object would be the spent third stage of the booster. Things did not work out



far exceeded the accuracy of the NASA/NORAD data. Ken kept refining his data and for approximately one month after launch, his data was by far the best available.

Through contacts at NASA/NORAD, Ken was finally able to assist NASA/NORAD with the proper identification of RS-15. Why did this take so long? It finally became known that the third stage of the launcher "blew up" approximately ten minutes after the RS-15 separation leaving it mixed up with many fragments of "Space Junk." This "Space Junk" made it almost impossible for the radars used for orbital determination to sort out the real RS-15. Only through slaving the RADARs to orbital predictions based on Ken's data was NASA/NORAD able to make the final identification. Thank you Ken!

Intermittent Operation

By late February, 1995, intermittent operation of the RS-15 beacon and transponder was observed. Once again Satellite Operators put on their Sleuth Hats and went to work. It didn't take too long to determine that the intermittent operation occurred during times that the satellite was in eclipse. Further investigation has shown that the batteries on board RS-15 can not stand the load of a fully functioning satellite for long when it is in eclipse. The problem is made worse when the satellite is heavily loaded with users and

abusers of the satellite. The abusers run too much power on the uplink and cause a heavy drain on the downlink. Once the problem was known and published operations have improved; however, the eclipses are cyclic and good and bad periods will probably be experienced throughout the life of RS-15. Good operators will avoid operating during these eclipse periods and prolong the life of RS-15.

New "Birds"

Two new "birds" are now scheduled for launch on 28 March, 1995. Both "birds" will ride on a common Russian launcher. One "bird" is UNAMSAT-1, built by students in Mexico on a AMSAT-NA Microsat spaceframe. The other "bird" is TECHSAT, built by the Technion group in Israel. Both of these "birds" are Amateur Radio Satellites and we eagerly await the launch and commissioning of them.

Summary

RS-15 is alive and well with interesting orbital characteristics making it a new "DX Bird." Two new "birds" will launch before you read this. Finally, the recently completed STS-67 mission on the Shuttle was a record breaker for SAREX operations. See you on the "birds."

73 de Keith Pugh, W5IU, AMSAT VP of Operations.

All 50 States "W" 1 x 2

Bud Bearce, K5JGU, set a goal of working all 50 states by contacting only "W" 1 x 2 callsigns. Pictured below is the results of his efforts. Bud says that he did it the hard way because it was only *after* achieving the goal he found out about the Geritol Net on 75 meters.



Net Controls Needed

Jay Strom, K9BSL, Activities Manager for QCWA, reports that he is in desperate need of Net Control stations. He states that Wes Randles, W4COW, acts as an alternate Net Control at least twice a month. If you are interested and have equipment to check into the National Net on 14.347 MHz on Sundays at 2000 UTC, please give the Net Control station your information. Thanks.

1994 Convention Highlights



National Officers and Board members conducted a semi-annual board meeting during the National Convention.



QCWA President Lew McCoy, WIICP, introduces Gladys Chase, W1VPF, the newest National Board member, to the banquet guests.



Leo Meyerson, W0GFQ, receives the QCWA Hall of Fame Award from President McCoy during the banquet at the National Convention.



El Paso Chapter 64 President Bob Carroll, K5IE, presents National President McCoy with a Texas size souvenir during the banquet at the National Convention.

ADD TO YOUR COLLECTION

A Beautiful Reproduction of a
1936 Logbook



Remember those days ?

Add this to your collection

Better Yet ..

Buy a copy for your station and enjoy its format

Now available from :

QCWA Inc.

159 E 16th Ave

Eugene, OR 97401

\$ 6.00 per copy

Our thanks to Tracy Reese, WB6TMY, who fell in love with this era of amateur radio and conceived and furnished the art work.

In cooperation with ARRL, the Quarter Century Wireless Assn., Inc, presents this special edition.

QCWA JOURNAL Book Review:

Antennas and Techniques for Low-Band DXing

By: John Devoldere, ON4UN/AA4OI. ISBN: 0-87259-466-1, 392pp., 2nd edition.

Reviewed by: Doug Hensley, WJ5J.

The original *Low-Band DXing* has been a popular book for a number of years, read mostly by inhabitants of the First Estate, as some used to say, the 160, 80, and 40 meter empires down under.

For those of you who inhabit that down under, as well as those of you who journey down regularly as a break from the upper regions, Devoldere's new enhanced second edition promises to be an important work.

Antennas and Techniques is partitioned very much like the traditional ARRL antenna manual, but bears an active, an organic, rather than a referential spirit. You cannot just pick it up anywhere and stay on the same wavelength as its author. You have to dialogue with him and begin where all good books begin, at the outset. Following tradition with opening chapters on propagation, operating techniques, and equipment recommendations (including an outline of the new software), John sets forth a very careful set of fundamentals: a clear orientation on purpose, a list of definitions based on the needs of low-frequency work, and a solid, and memorable, feed line discussion. The antennas themselves are begun with a chapter on special receiving antennas to emphasize their exceptional importance in any propagation plan. Here we find, amongst other things, their unique requirements, the necessity for antenna diversity, why the switchable array is fundamental, and a good lesson on why we should take advantage of the magnetic component of an RF signal whenever we can. Dipoles, verticals, large loop antennas, vertical arrays, other arrays, Yagis and quads for the low bands are the remaining divisions which follow and are substantial texts to be studied.

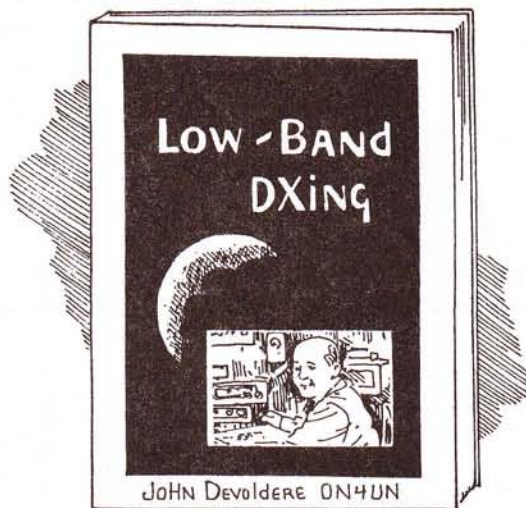
This logical sequence of chapters becomes rather exciting, by the way, when applied to a narrower frequency spectrum since space becomes available for both generous modeling as well as discussion depth. How often do you see low-HF dipole or beverage antennas modeled, let alone discussed fully, then arrayed, then compared with verticals, and with references to further reading? Vertical antennas themselves are given such extensive treatment that, combined with their discussion within vertical arrays, they occupy well over one fourth of this large book, nearly 120 pages. There are new antennas too. You'll find a description of John's amazing new Four-Square antenna and in a special chapter on loop antennas you'll read about a dynamic low-band loop with amazing performance. And if you're a Yagi fan, and really have the room and resources for physically moving elements, you need to see this book.

Combine these discussions with really first rate engineering, with available software to support the text and your own program, with substantial referencing (there are over 760 bibliographed references), with recommendations based on a dramatically successful life in the down under (How does 245 countries on 160 meters in 7 years from a 1/2 acre lot sound? Or 35 zones and 113 countries on 80 meter CW in one weekend? That's DXCC folks!), and you have before you the ingredients for DX-citement on the very low bands.

Now resist the temptation to profess that you are not a DXer and so have different needs. Don't you participate in MARS, or check into nets, or have schedules with a friend or relative across the grand divide, or want to work those last four zip-codes on 75, and aren't those things important to you too? DXing simply entails selecting, planning, and

executing a radio plan so that air time is results oriented. Effective low-frequency management will accommodate a national net, a MARS program, a schedule with a good friend across the state, just as well as a world wide contest.

Let me summarize *Antennas and Techniques* this way: it is a book written to challenge the reader into an antenna and propagation program of his own, and does this in at least three ways. First, it is not intended as a sole source. You will need data from other disciplines, information from other references, conversations with your own friends. You will want to use your wit, older handbooks, your junk box, your common sense, and often the permission of your wife and neighbor. Secondly, it is a program to emulate as you gain experience. Use the software modeling to aide you in estimating band openings, to ease on-site engineering calculations, and to document what you are doing. Antenna modeling is a great way to learn, to predict mistakes, to annotate experience, to ask "what if", and refine that special antenna. Here's an opportunity to make infamous that Arkansas Special, that Denver Zepp, or that Everglade Agitator. Thirdly, it is an admonition to become involved with the Literature, as the professionals say. Every professional works from the defined literature base of his interest. John's references provide you with a fine working bibliography and many points of departure. Moreover, they are available on a source disk along with a functioning database which was designed for you to begin your own bibliography by adding the references of your choice. Need I say more?



This new second edition is aptly subtitled *Your guide to ham radio DX-citement on 160, 80, and 40 meters* and is publication 74 of the ARRL's Radio Amateur Library. It is available through the League at a cost of \$23 shipped and through a growing number of mail order equipment dealers. The New Low-Band Software bundle and The Yagi Designer are available for \$55 each shipped through ON4UN in Europe and George Oliva, K2UO, here in the states. The Literature module and database is \$30 shipped. Chapter four of this second edition gives a thorough breakdown of the software.

73 de Doug Hensley, WJ5J.



1995 National Convention News

Five chapters of the Quarter Century Wireless Association join in inviting you to the 1995 National Convention scheduled for October 13th and 14th in the center of New England—Manchester, New Hampshire. They are Yankee, Pine Tree Twin States, Nutmeg and Pioneer Chapters.

The two day program will include the traditional QCWA forum, for an exchange of views between the membership and the officers/directors, who will start their Board session the day before. There will also be an ARRL forum. It wouldn't be a QCWA convention without Lew McCoy, W1ICP, now our president, bringing us the latest on antenna design and performance. Jerry Sevic, W2FMI, will solve our balun problems. Richard Baldwin, W1RU, President of the International Amateur Radio Union, will post us on how world radio conferences are affecting our bands. And more!

Come early and see the peak of colorful New England foliage. And take one or both of the tours during convention time. On Friday, a morning tour of southwestern NH foliage brings you to the Inn of East Hill Inn for luncheon, and then a visit to the Cathedral of the Pines (Keene shopping mall instead, if inclement weather). On a second day you can tour the seashore area and historic Portsmouth, both after a delightful luncheon and scenic drives through the countryside. There'll be

plenty of time for the ladies' shopping at modern malls (and hey!—there's no sales tax!). Tour capacities are limited, reserve early to assure a seat..

There are many additional attractions to visit on your own, before or after—the Shaker Village at Canterbury, and our own version of Stonehenge, for examples—each a mere half hour from the hotel. The local Cushcraft plant will be open Friday so you can see how antennas are manufactured. So come early and stay late—the special hotel rate of \$68, single or double, is good for a week before and a week after the formal dates. Free underground parking. Deadline for hotel reservations is September 20th.

For your palate, new this year is a special Sunday morning brunch—in addition to the usual bacon and eggs *et al*, there will be sea fruits of the New England coast such as lobster seafood Newburg. Don't miss the standard Saturday morning breakfast, a perfect start for the day's activities. Saturday night's banquet will wrap up the formal activities, with a speaker guaranteed to hold the ladies' interest as well as the OMs.

Use the form on the opposite side of this page to register now. CU there!!

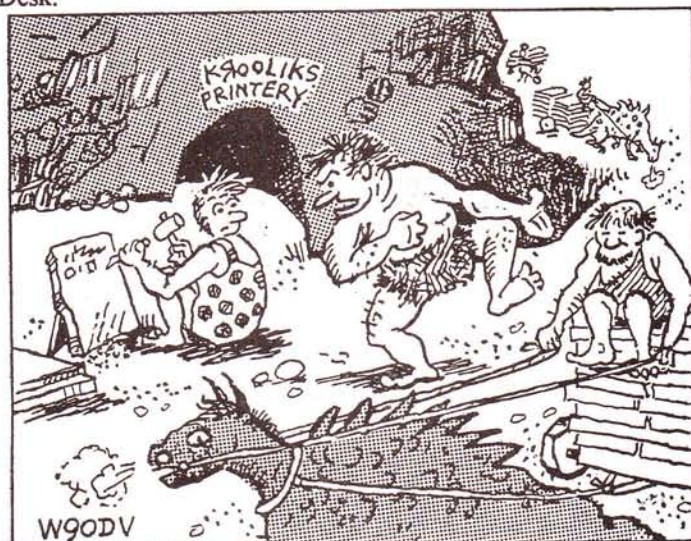
Plan to attend Gathering of Newsletter Editors at the National Convention

While you're attending the National Convention this October, plan to meet with other Chapter editors to exchange ideas and newsletters. It will *not* be a scheduled program but rather an informal get together to meet each other and to discuss topics of mutual interest. The time and place of the meeting will be posted at or near the Registration Desk.

For more information, contact Charles S. Griffen, W1YGR, 1225 New Britain Avenue, Elmwood, CT 06110-2405, phone 203-232-8515.

See you in Manchester!

73 de Charles S. Griffen, W1YGR, Editor, Nutmeg Chapter Newsletter.



"I'M RETURNING MY QSL CARDS--YOU MADE A MISTAKE IN MY CAVE NUMBER!"

Current Contests

April 7	144 MHz Sprint
April 22-23	Helvetia Contest (HB9)
April 25	222 MHz Sprint
April 27-29	DX-NA YLRL SSB Contest
May 3	432 MHz Sprint
May 7-8	MARAC CW Contest
May 13	902-2304 MHz Sprint
May 20-21	50 MHz Sprint
May 27-28	CQ WW WPX CW Contest
June 10-12	ARRL June VHF QSO Party
June 10-11	ANARTS WW RTTY Contest
June 17-18	SMIRK 6-meter Contest
June 24-25	ARRL Field Day
July 8	IARU International DX Contest
July 8-9	CQ WW VHF Contest

Courtesy John Dorr, K1AR, and CQ magazine

Advance Registration 1995 QCWA National Convention

Manchester, N. H.

October 13-14, 1995

*Hosted by Yankee Chapter 112, Pine Tree Chapter 134
Twin States Chapter 146, Nutmeg Chapter 149
and Pioneer Chapter 183*

Center of New Hampshire Holiday Inn
Elm Street, Route 3, Manchester

(75 rooms have been reserved. at \$68, single or double; not available through the 800 telephone number so call (603-625-1000) or write the hotel direct, mentioning QCWA for the special rate. Cutoff date is September 20.)

Name.....Call.....Spouse/Guest:.....
Street Address.....
City.....State.....Zip.....Call.....

REGISTRATION

QCWA Member.....	\$10.00	_____
Guest(s).....	\$ 2.00	_____
(Note : You must register to attend functions listed below.)		
Saturday Buffet Breakfast.....	\$11.00	_____
Saturday Banquet, Chicken Cordon Bleu.....	\$21.00	_____
T-Bone Steak, Sauce Chasseur.....	\$23.50	_____
(Cocktail hour 6:00 P.M. to 7:00 P.M., cash bar)		
Friday Tour (Foliage, Luncheon, Pines/Mall).....	\$27.00	_____
Saturday Tour (Luncheon, seashore, historic Portsmouth).....	\$27.00	_____
Sunday Special Brunch.....	\$15.00	_____

TOTAL ENCLOSED \$ _____

Make checks payable to Charles Walbridge QCWA Conv. Account. Mail this form and remittance to Charles Walbridge, K1IGD, 6 LaCleda Av, Framingham MA 01701. (For more information telephone 203-668-0845.)

QUARTER CENTURY WIRELESS ASSOCIATION, INC.

159 East 16th Ave, Eugene, OR 97401-4017

(503) 683-0987

FAX (503) 683-4181



This form for use by all U.S. Applicants
for membership in QCWA
Effective 10/1/93

For Office Use Only

Membership No. _____

Date _____

First Licensed, Year _____

Deposit Record _____

Have you been previously enrolled in QCWA ? _____

I, _____, _____
(Print Name Clearly) Present Call _____

having been licensed as an amateur 25 or more years ago and presently holding the call listed above
(it is not necessary to have been licensed the entire 25 years) hereby apply for membership in QCWA..
I understand that proof of the original date of licensing is required. My complete mailing address is :

Street Number and Name _____ City _____ State _____ Zip Code _____
I will keep QCWA Headquarters advised of changes in my address and/or call sign. My first Amateur
license was issued _____ Other calls held _____
I wish to become affiliated with QCWA Chapter _____
Date of Birth _____ Birthplace _____
Present occupation / business _____
If retired, what was major life work ? _____
Other organizations you belong to _____

Your Signature _____

SCHEDULE OF MEMBERSHIP FEES

Select one of the following plans

	Members	Family
QCWA Dues for a one-year period	\$15.00	_____
QCWA Dues for a two-year period	\$25.00	_____
QCWA Dues for a three-year period	\$35.00	12.00 _____
QCWA Life Membership	\$225.00	90.00 _____
Payable in 3 equal installments of \$80.00 each, in a one-year period	\$240.00	105.00 (3 pay of \$35.00) _____
Initial registration fee, all new members	\$3.00	_____

Gold membership pins are available, your call engraved, no year tags. Check fastener.

Tie-tac _____, Screw button _____, Safety pin _____ \$10.00 each _____

Year tag pins, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70 or 75 tie-tac only \$15.00 each _____

Proposed by _____, Call _____, No. _____ Total _____

Member Supplies

Order Blank

QCWA Lapel pins are gold plated, with call engraved.

Two types are available.

- No year tags. Choose tie-tack, safety-pin, or screw type.

Plain pins (no year), each \$10.00

- With year tags (clutch-type only). Specify year—25, 30, 35, 40, 45, 50, 55, 60, 65, 70, or 75.

Year pins, each \$15.00

QCWA Life Member pin \$ 5.00

QCWA Embroidered emblem \$ 5.00

450 QCWA Red stamps (regular) \$ 3.00

450 QCWA Gold stamps (Life) \$ 3.00

400 QCWA Yellow Stamps (50-yr) \$ 3.00

QCWA Cap with Logo \$ 5.00

QCWA Chapter Banner \$200.00

QCWA Decals \$ 1.00

QCWA QSL Cards (Please see ad elsewhere)

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

Total \$ _____

Ship to:

Name _____ Call _____ QCWA No. _____

No. and Street _____

City _____ State _____ Zip code _____

Sorry, but we can no longer accept orders charged to credit cards.
Please mail your check to:

QCWA, Inc.
159 E. 16th Ave.
Eugene, OR 97401-4017

Phone (inquiries only, no orders): 503-683-0987, fax 503-683-4181

Certificates

MEMBERSHIP CERTIFICATES numbered in serial order are issued to each member. Numbers are not re-issued except to the same member to whom they were first issued.

QCWA GOLD CERTIFICATES celebrate the 50th anniversary of licensing. Issued without charge to eligible members upon proof of year of first license.

GOLDEN CERTIFICATES are issued in five year increments—55, 60, 65, 70, 75 year Certificates free of charge to eligible members.

50-YEAR CONTINUOUS LICENSING Gold certificate available to eligible members. Requires submission of proof of continuous licensing. There is a \$5.00 fee. Applications available from QCWA Headquarters.

QCWA CENTURY CLUB CERTIFICATE is issued to QCWA members whose age, when added to their number of years as a QCWA member totals 100 or more. No charge for the Certificate.

MERITORIOUS AWARD is issued by Headquarters, upon request of any active QCWA Chapter. One such award is authorized for each Chapter each year. The award may be given to recognize unusual dedication to QCWA or Amateur Radio. No charge for the award.

Operating Awards

QCWA Operating Award Certificates are issued to QCWA members by the activities manager. Proof of eligibility is required.

QCWA WORKED 50 STATES awards are issued to QCWA members who have contacted members in each state of the Union.

QCWA WORKED 100 MEMBERS awards are issued to QCWA members who have contacted at least 100 QCWA members.

QCWA WORKED 60 CHAPTERS awards are issued to QCWA members who have contacted members of 60 chapters.

QCWA WORKED 500 MEMBERS awards are issued to QCWA members who have contacted 500 QCWA members.

Chapters on the Air

NR	Name	Day	Time	NC	Freq.	NR	Name	Day	Time	NC	Freq.
	QCWA CW	Wed	2000E	varies	3535	81	Long Island Chapter	Fri	2030L	K2YAW	147.33
	Florida SSB	Sat	1300Z	W4NWF	3955	84	Florida Chapter	Mon	1930L	KF4BU	146.28
	QCWA SSB	Sun	2000Z	varies	14347	85	Ark-La-Tex Chapter	Mon	2100L		146.67
	Florida SSB	Wed	1500Z	W4NWF	7274	87	Evergreen Chapter	Sun	0700L		3985
	NE Regional	Sun	0845L	W2AUF	3917	89	Palmetto Chapter	Sat	0900L	W4DNR	3927
1	Cleveland Chapter	Wed	2000L	W8NZD	146.88	89	Palmetto Chapter	Sun	1700L	N4LS	3695
2	Chicago Area Chapter	3Th	2130L	W9MOL	147.15	90	Razorback Chapter	Sun	1300L	W5MYZ	7227
4	Northwest Chapter	Sun	1630Z	W7PN	3655	91	Vic Clark Chapter	Sun	0900L	K4JAP	146.79
4	Northwest Chapter	Sun	2000Z	W7FNC	3952	92	Northern Lights	Thu	1900L		3890
4	Northwest Chapter	Sun	2300Z		3952	92	Northern Lights	Sun	2000L		146.97
5	Delaware Valley Chapter	Sun	1000L	W2EEQ	3917	95	Eastern New York	Sun	1130L		3900
6	Pittsburgh Chapter	Sun	1330Z	W8CSU	147.63	96	Gateway Chapter	Sat	1600Z	W2KGI	3933
7	Southern California	Sun	1000L	W6ZRZ	146.805	102	Dakota Chapter	Sun	1300Z	W0HOJ	3889
7	Southern California	Sun	1100L	K6BA	3695	104	Treasure State	Sat	0900L	W7DB	3938
8	Upper Midwest Chapter	Sat	0800L	W0KHG	3877	106	German Chapter	Tue	1730Z	DJ2ZB	3555
9	Southwest Ohio	Sun	1330L	W8DWT	3987	106	German Chapter	Mon	1700Z	DL9AR	3663
10	Michigan Chapter	Sun	1200Z	varies	3903	107	Central Florida	Thu	1230L		14245
11	Northern California	Sun	0930L	WA6AFT	3907	107	Central Florida	Sat	0900L	W4LHP	7243
12	Southeast Florida	Wed	2030L		146.76	108	Beaver State Chapter	Wed	0800L	KM7T	3908
14	San Diego Chapter	Wed	2030L	K6QM	145.52	109	Baton Rouge Chapter	Sun	2000L	W5URR	146.19
16	Arizona Chapter	Sun	0700L	W7ER	3890	109	Baton Rouge Chapter	Sun	0830L	W5URR	3905
17	Allentown-Bethlehem-Easton	Sun	1200L	K3GOX	3990	110	Kansas Chapter	Sat	1330Z		3920
19	Missouri Chapter	Wed	1900L	KD0IR	147.15	112	Yankee Chapter	Sun	0830L		3902
20	Baltimore Chapter	Mon	2100L	WA4GHU	147.285	114	North Texas Chapter	Sat	1430Z	WB5PHM	3943
21	Canton Ohio Chapter	Thu	1930L	K8UDO	146.79	117	Appleseed Chapter	Sun	2030L	W8JYY	147.36
25	Nebraska Chapter	Sat	1430Z	W0EUT	3983.5	118	Coastal Carolinas	Sat	0900L	W4EHF	3895
27	Houston Chapter	Thu	1930L	W5CCD	3866	120	Qtr Cty Wireless Women	Tue	1900Z	K4KUU	14295
28	Central New York	Sun	1030L	varies	3917	122	Lake Erie Tri-State	Sun	0930L	W3QPP	3915
30	West Virginia Chapter	Sun	1500L	W8CCR	3865	123	Lee DeForest Chapter	Sat	0730L	K0DBW	3890
31	Reading Chapter	Mon	2100L	W3BN	146.91	126	Piedmont Chapter	Sun	0845L		3935
32	Gator Chapter	Sat	0900L	varies	145.29	128	Pelican Chapter	MWF	1600L	K9BSL	145.29
33	Gunderson Penn-Jersey	Dly	2000L	W3APE	3982	128	Pelican Chapter	Sat	1000L	K9BSL	145.29
35	Midcontinent Chapter	Thu	1930L	W0WHK	146.97	130	Inland Empire	Fri	1600L	AA6J	3862
36	Northwest Indiana	4Wd	1900L	N9MRS	147.495	130	Inland Empire	Sat	0800L	AA6J	3862
37	Harrisburg Chapter	Wed	2100L	K3IUY	147.12	131	Gulf Coast Chapter	Tue	0900L	WF4V	28750
38	San Antonio Chapter	Sun	2030L	W5HRF	28650	134	Pine Tree Chapter	Sun	1430L	W1OGT	3942
41	Dallas Chapter	Sun	0715L	varies	3835	135	Mid-Michigan Chapter	Tue	2000L		146.70
44	Hoover Dam Chapter	Mon	2000L	W9RU	145.39	136	Austria Chapter	Wed	1700Z		3720
45	Citrus Chapter	Tue	1930L	WB4DRF	147.195	138	Central New Jersey	Tue	2200L	W2DME	147.045
46	Founder's Chapter	Sun	0930L	W2AUF	3917	140	Wyoming Chapter	Sat	1500Z	W7MZW	3923
46	Founder's Chapter	Thu	2030L	W2AUF	147.36	141	Hi-Plains Chapter	Sat	0900L		3933
48	Treasure Coast	Dly	1500Z		7153	142	Northwest Ohio	Wed	2000L	K8JA	145.58
49	Atlanta Chapter	Wed	2000L		145.41	143	North Colorado Chapter	Sun	0830L	N0CG	145.115
49	Atlanta Chapter	Sat	0900L	K4VN	3857	143	North Colorado Chapter	Sun	0900L	W0WSK	3905
51	Tex-La Golden Triangle	Mon	1830L	W5MSX	146.70	146	Twin State Chapter	Sun	0830L	WA1NBI	3898
51	Tex-La Golden Triangle	Sun	0930L		7.157	149	Nutmeg Chapter	Sun	1130L	W1KHL	3923
52	Mississippi Gulf Coast	Thu	2030L		147.225	150	Del-Mar-Va Chapter	Sun	0900L	W3BY	146.28
54	Tyler Chapter	Sun	0800L	W5CNO	3835	151	Wild Rose Chapter	Mon	2000L		3747
54	Tyler Chapter	Mon	1930L	W5RRM	28.650	152	Royal Palm Chapter	MWF	0800L	K4FA	14178
54	Tyler Chapter	Mon	1900L	W5RRM	28.150	152	Royal Palm Chapter	T-T	1300L	W4LZV	14178
55	Wisconsin Chapter	Sun	0830L		3985	152	Royal Palm Chapter	MWF	1300L	W4LZV	7220
58	Colorado Chapter	Sun	0900L	W0WSK	3905	154	Leo Meyerson Chapter	Thu	1830L	W9VKC	145.480
58	Colorado Chapter	Sun	0930L	varies	146.07	157	Pony Express Chapter	Sun	0830L	W0GGP	3955
60	East Tennessee	Sat	0900L	AA4WX	7233	160	Utah Chapter	Sat	1730Z	W7FVM	7272
61	Detroit Metro Chapter	Sun	0800L	W8IHX	3663	162	Southeast Wisconsin	Thu	2100L	W9NWK	147.27
62	Suwannee Chapter	Sat	0900L	W4PFJ	3940	162	Southeast Wisconsin	Thu	2100L	(alt)	146.5s
63	Central Oklahoma Chapter	Sun	0800L	varies	3855	164	Big Bear Lake Chapter	Sun	1900L		224.02
63	Central Oklahoma Chapter	Thu	1900L		145.41	164	Big Bear Lake Chapter	Sun	1900L	WA6NLG	147.33
64	El Paso Chapter	Sat	0830L	varies	3933	165	York County Pennsylvania	Wed	2100L	W3AXC	146.97
65	Niagara Frontier	Sun	1330L	W2NW	3900	166	Colonial Chapter	Wed	1400L		147.21
70	National Capital	Thu	2000L		147.03	167	Gold Coast of California	Wed	1930L	KI6YN	147.885
73	Southern Ontario	Sun	0900L	VE3AGS	3773	172	New Orleans Chapter	Tue	1900L		146.61
73	Southern Ontario	Sun	1300L	VE3MO	7088	173	Golden Triangle Chapter	Tue	1930L		147.255
75	Central California Coast	Sat	0800L		3917	174	Wisconsin Badger	Sun	1600L		146.82
76	Blue Ridge Chapter	Sat	1300L		7180	181	Hudson Valley Chapter	Sun	0815L	W2OZA	3917
77	Northern New Jersey	Thu	2000L		147.285	182	Northeast Tennessee	Sun	2100L	W4VS	146.76
77	Northern New Jersey	Sun	1300L	W2OJW	3917	183	Pioneer Chapter	Sun	1030L	W1ALL	3923
79	Sunflower Chapter	Wed	2100L		146.82	184	Bay Area Chapter	Sun	1830L		146.64
81	Long Island Chapter	Sun	1130L	W2TLC	3917	187	Golden Isles Chapter	Wed	1900L		3920

Chapter Reports

Note: Chapter reports are in Chapter numerical order.



Joseph Zelle, W8FAZ, accepts the Cleveland Chapter No. 1 "Ham of the Year" award for 1994 from Chapter Chairman Bernie Hinricksen, W2NTB.

Chapter 1, Cleveland: Our Winter meeting was held Saturday, January 14 at the usual place preceded by luncheon. About 70 members, spouses, and their friends attended.

Once again our vice-chairman, Andy Doles, W8UDG, introduced the guest speaker. It was Mr. Christopher Pestak, from the NASA Lewis Research Center of Cleveland.

Mr. Pestak is deputy manager of the Systems Engineering and Integration Division at the center. He has been with NASA since January 1983.

He has worked on a variety of space flight projects, including the Atlas/Centaur and the Titan/Centaur launch vehicles, as well as several micro gravity space experiments, including the surface tension driven convection experiment (STDCE), which flew aboard the Space Shuttle during the summer of 1992.

With all that experiment plus his pleasant personality, he held the entire group spellbound. The subject covered manned space flight in America, interweaving it with frequent references to the accomplishments of the Soviet Cosmonauts.

Many questions from the audience indicated familiarity and tremendous interest in space activity. In fact Mr. Pestak offered to come again to talk about the outer space achievements.

Everyone was extremely pleased as could be gathered from the remarks heard for a couple of Wednesday nights on the QCWA, Cleveland Chapter No. 1 net on 146.88 MHz. (-600) at 8 PM. Anyone within hearing distance is invited to join us every week.

We no longer hear the signals of Jim Hager, W8OBX, of Highland Heights, Ohio. Jim quietly joined the Silent Keys. Our condolences and RIP, OM Jim.

Respectfully submitted, Joseph Zelle, W8FAZ.

(Mr. Zelle sent a letter to GM Jim Walsh, W7LVN, about the Journal not publishing the badge. In the letter he made the point that this was the eighth omission in a row and he wondered who edited out the badge. Regarding this editor, Mr. Zelle, I must say that the copy of the badge is not high enough quality to do it justice. If you have a photo of the badge, please send that in and we will try to publish it in a future issue of the Journal. -ed.)

Chapter 5, Delaware: On Friday, October 21, 1994, Chapter 5 had a tour through the National Weather Service Forecast Office, which is now located in Mt. Holly, NJ. This office was previously located in Philadelphia, PA and recently moved into its new facility in Mt. Holly.

Doug Young, a meteorologist at the facility, was our guide and before we toured the facility, showed a film on some of the severe weather that had recently been encountered throughout the US. A question and answer period took place after the film and much was learned by all about severe weather problems. Also a member of the Amateur Radio weather observers group gave a short informative talk on their part in providing the weather service with important information about conditions in the local forecasting area during severe weather conditions. After the film, we entered the computer room and had an opportunity to view the sophisticated equipment that provides the information for forecasts for our area. Various pieces of equipment were described and questions were answered by the operators of the equipment.

Everyone enjoyed the visit to the National Weather Service and came away better informed about how the weather predictions are provided and the work involved in assembling all the necessary data required to make a forecast.

After the tour, all the members and guests went to the nearby Burlington County Human Services building and had lunch in the cafeteria and then George Van Dyke, W3HK, Chairman, opened the chapter meeting and welcomed all those present. The minutes of the previous meeting were read and approved and in the absence of the treasurer, Marv Foral, W3QGC, the secretary gave the treasurer's report. A request for each member to supply his QSL card was made so that it can be added to the ones on display at each meeting. A discussion on the auctioning of frequencies by the FCC followed and the future effects that might be felt by Amateurs. A new member was announced, Michael Kincaid, W7FKF. Door prizes were distributed by a drawing and then the meeting was adjourned.

Respectfully submitted, Chapter 5.



Ed Gammeter, W8CSU, Pittsburgh Chapter 6 President, on the right, congratulates John Hoffer, W8CWY, as he presents him with a Meritorious Award for his long service as the Historian of the Chapter. Chapter 6 meets four times a year at the Tonidale Restaurant. Photo courtesy W3SVJ.

Chapter 7, Southern California: The fall lunch/brunch was held at the Long Beach Yacht Club on October 22, 1994. Bill, W6ZRZ, was installed as president and George, WA6YEA, will remain as Secretary-Treasurer.

Awards were given to Vern, W6FCD, for 70 years and Blake, W6NSK, for 55 years. It was a wonderful day with excellent food and good fellowship.

Respectfully submitted, Vi Barrett, W6CBA, outgoing President.



Vi Barret, W6CBA, outgoing president of Chapter 7, presents Vern, W6FCD with his 70-year award during the fall Chapter luncheon meeting. Photo courtesy W6CBA.

Chapter 12, Southeast Florida: Our Chapter has been busy the past few months. In December we enjoyed our annual Christmas Party at the home of Andy, W4IYT, and Betty Clark, W4GGQ. We held election of officers at that time and our officers for 1995 are Andy Clark, W4IYT, President; Jerry Crawford, K7UPJ, Vice-President; Art Rauch, W4VZ, Secretary; Marion Rauch, WB4RFB, Treasurer, and Betty Clark, W4GGQ, Corresponding Secretary. Our thanks to George Henning, WB4JFA, who served as our President last year.

The Hospitality Booth hosted by our Chapter at the Tropical Hamboree in February was a great success. We were pleased to have 96 visitors sign in, including Harry Dannals, W2HD, Leland Smith, W5KL, Wes Randles, W4COW, and Blanche Randles, W4GXZ.

In an effort to have our members become better acquainted Andy, W4IYT, suggested an in-house "QCWA Spotlight" program at each meeting. During our February meeting he called on Don Search W3AZD to initiate the program. Don gave us an interesting description of his ham radio background, including his DX accomplishments and his 15 years as DXCC Manager at ARRL Headquarters. Don is a member of several QCWA Chapters, including our Southeast Chapter 12, the Nutmeg and Yankee Chapters in Connecticut and the Washington, DC Chapter. Don's hometown is Silver Spring, Maryland.

We welcome all members and visitors to our monthly meetings at noon on the third Saturday of each month at our new meeting place, Her-Bets Restaurant, 3900 NW 79th Avenue, Miami, FL. Come join us.

Respectfully submitted, Betty Clark, W4GGQ,
Corresponding Secretary.

Chapter 14, San Diego: The San Diego Chapter 14 held its winter brunch on February 5 this year. A total of 36 attended. Good food, buffet style, was in abundance. In addition, there were many prizes of minor value which livened up the meeting.

George Mitchell, K6ZE, introduced Jim Phelps, Operations Officer for the County Office of Disaster Preparedness. He discussed the San Diego County plans and systems. The need for Amateur Radio communications assistance is recognized and desired. RACES and ARES activities are being brought together as a unified response group to better serve in time of disaster. Mr. Phelps reiterated the oft told tale in the San Diego area: Not if, but when—earthquake, that is.

President Jack Fletcher, W6JIR, is looking for a volunteer for Chapter Secretary. Joe Saugier, K6CD, resigned as the secretary because he will be out of the area for months at a time in care-giving activity. Also, the Chapter still needs a vice-president.

John Weiting, K6QM, says our next brunch meeting will be in April. If your dues are current, you'll get a meeting notice!

Respectfully submitted by outgoing Secretary Joe Saugier, K6CD.

Chapter 16, Barry M. Goldwater Arizona: There were 79 people attended the joint QCWA-SOWP luncheon and meeting held at the Safari Resort in Scottsdale on December 10th. The ARRL Southwestern Division Director, Fried Heyn and the QCWA Vice President and SOWP President, Jack Kelleher spoke of what their respective organizations are doing and what is in store for the future. Bill Jackson, SOWP Pacific-S. W. Chapter Director was Master of Ceremonies. Several Award Certificates were awarded to both QCWA and SOWP members.

Dave Bell, W6AQ, a noted Hollywood Producer of movies for TV and the cinema was the featured speaker. Dave told of his first experience with radio and how he got involved with Ham radio. He went on to tell of his life work and how it tied in with Amateurs. Dave also commented on some of the problems we are having with frequency allocations and the commercial industry grab for government and amateur frequencies and how we may be able to protect our current allocations.

The final feature was a drawing for door prizes with the grand prize being a Radio Shack 2 meter HT.

On January 21st we held our Winter luncheon meeting in Sun City West at the Crestview Restaurant with 55 people in attendance. After lunch, Ralph Barr, WØDNO, our new president opened the meeting with introductions of everyone present. It was then announced that due to the resignation of John Gray, K7GFZ as our president in late October Vice President Ralph Barr took over as president and that Harry Snyder, WØRN was appointed as new vice President. Harry then gave a report on some legal problems the Hams are having and things we could do to help. Ray Porter, K7AA, reported that Terry Pemberton of Prescott's Granite Mt. Middle School has been nominated as one of the ARRL Ham teacher of the year candidates. The winner will be chosen this summer.

George Hand, KE7DH, then presented a video show with narration of his trip through the Klondike and Yukon area of Alaska which he and his wife took last summer. Door prizes were then drawn and awarded.

Respectfully submitted, Cliff Bruce, W7ER, Secretary.

Chapter 25 Nebraska: The new officers for 1995 are: Dick Newsome, WØHXL, President (402-451-1202); Bob Atwood, KØIXY, Vice-President (402-291-6553); Dale Reandean, WWØR, Secretary (402-721-8867); and Reynolds Davis, KØGND, Treasurer (402-488-3706).

The new board members are: John McKinney, WØAP, (308-226-2427); John Ferrell, WØYDV, (402-558-2030); Gary Riess, WAØJRM, (308-263-3231); Chuck Davis, NGØM, (402-466-0454); and Chuck Carey, WAØDXY, (402-379-3882).

On behalf of the current Officers and Board Members, we wish to thank Past President Skip Miller, WØKVM, and Past Treasure Ivan Cidlik, WØWVE, for their hard work and dedication to Chapter 25. Our Chapter is in excellent shape due to the efforts of these two fine individuals.

The ARRL Midwest Convention was held in Omaha on October 14, 15, and 16th of 1994. Chapter 25 had a booth at the convention and it was manned by WØKVM, WØYDV, KØIXY, and WØHXL. Our Chapter 25 flag was proudly displayed and we signed up new QCWA members. We also had a QCWA Luncheon with about fifty.

As of February 4, 1995 the Treasury has \$1166.11 in it. Chapter 25 is donating \$250.00 to the Scholarship Fund; Honoring Nebraska Chapter 25 Silent Key's. This is an excellent tribute to our Silent Keys and very beneficial to the Amateurs receiving the annual scholarships.

We have two active Chapter 25 Nets. Saturday mornings at 0830 local time on 3.983.5 MHz. and Tuesday evenings in Omaha at

1930 local time on 147.06 + MHz. repeater. Please check into these QCWA Nets and enjoy the conversation and news that is provided.

The "On The Air Board Meetings" on 80 Meter HF seem to have the approval of the membership. Since this Chapter covers the entire State of Nebraska, this allows all of the Board Members to take an active part in Chapter meetings and conduct Chapter business.

The monthly luncheon is held in Omaha on the 4th Thursday of each month, at Anthony's Restaurant, 72nd and "F" Street. In Lincoln, the luncheon is held on the 2nd Wednesday of each month at the Pantry, 66th and Starr Street. I would like to thank Bob, KØIXY, and Ivan, WØWVE, for coordinating these luncheons. If there are gatherings at other locations in the state please let me know, so that it can be published.

If your dues are not current to 95 (meaning 1995) please forward a check for \$3.00 per year dues to our new Treasurer, KØGND.

It certainly looks like we are headed for an exciting year. Our Nebraska Cornhusker Football Team brought home the National Championship. It was an exciting game and Tom Osborne has his first title ever.

We are a very diverse group of Amateur Radio operators. We have members who build windmills, recondition old cars, recite Burma Shave ad's, work CW, work SSB, work FM, chase DX, are VE's, work packet, computers, feed wild birds, feed our livestock, plant and harvest the crops, and rag chew. Yes, Chapter 25 is the greatest!

One additional note. If you are an Officer or Board Member, it is imperative that you check into one of the Chapter 25 Net's, at least twice a month. This keeps you abreast of Chapter business and activity. Your fellow QCWA members thought enough of you, to elect you, to that position. Now you must return that respect by fulfilling your duties.

Please send me your comments and suggestions for the Chapter 25 Newsletter. I look forward to hearing from you.

Respectfully submitted, Dick Newsome, WØHXL, President.

Chapter 29, Finger Lakes: This really is not fair. I am sitting in the sun room at my Ellenton, Florida QTH preparing this report! On the other hand, it has come to my attention that high-temperature records and no-snow records have been broken in NY State since my departure in early January... Those in areas hard-hit by winter storms, floods, earthquakes, tornadoes and the like will not appreciate my joking about the weather. Our thoughts and prayers go out to all of you who have met Mother Nature and lost, during this season of peculiar weather patterns. We place great stock in our technical advances, but most of us have found ourselves humbled and helpless in the face of nature's forces.

Unlike last year, the memories of Thanksgiving Dinner 1994 evidently left many of our members uninterested in the regular last -Friday-of-the-month luncheon meeting at Weber's! We nevertheless had a good roundtable eyeball QSO among five members and three guests. Our thanks to outgoing chapter president Ed Cersten, WB2MWW for his significant contributions as our president.

The December 30th luncheon meeting at Weber's was slightly better-attended, with ten members and three guests present. Our meeting was enhanced by the signing up of two new QCWA members, Phil "The TV Doctor" Lambrinos, WA2IMX, and Jim McHerron, N2LZI. Both gave us a talk about their fast-scan TV exploits during the last half of 1994.

We learned that Phil, Jim and N2BQV of Cazenovia, NY have been making PS - (Picture 5 instead of Q5 - crystal-clear picture exchanges over distances up to approximately 25 miles. They

operate using 147.57 simplex and 147.075 as a repeater frequency. (With a cable-ready TV hooked to an outdoor antenna, the conversion frequencies in the TV permit any ham to "SWL" the TV transmissions on channel 58, which is 734-740Mhz on the RF input). They emphasized that high gain antennas and good RC-6/U cable make all the difference. They explained that any inexpensive video camera, including those used in security systems, a VHF or UHF FM transmitter with a tiny video modulator added, any working TV modified to convert the ham frequency to an unused local VHF channel, and a standard voice transceiver to handle the audio are all that one needs to work amateur TV.

I was unfamiliar with RC-6/U and forgot to ask them, but looked it up later in the parts catalog. It's 75-ohm 100% shielded coaxial cable with a solid center conductor, used primarily in CATV work. This is the self-same cable I had branded as cheap and worthless! Not so—and the prompter of a personal education regarding coax, and not from the Handbook (it is not in there!). We thank W2YIK for a generous donation to our chapter treasury. It was agreed our next meeting would be a luncheon at Weber's Restaurant on January 27th.

I report with great regret that Charlie Fox, W2UYE, became a Silent Key just prior to our meeting. He had been recovering from a stroke. Charlie, who was QCWA NR. 5158, had let his membership lapse. Charlie began his long ham career when our part of NY State was in 8-land, holding the calls W8AYI and W8JRT. Charlie was Treasurer of the NY Public Operations Net, the largest ARRL National Traffic System net in NY State. Charlie came with me to one of our 1994 meetings, not long after I'd repaired the feedline to his antenna. For a short time, he checked into the net. I handle traffic mainly on CW, and when I was an NTS official, many SSB-received radiograms came to me via Charlie's telephone calls. He was a true gentleman and will be sorely missed. My thanks go to incoming chapter president Joe Molinaro W2FUU for agreeing to assume my duties as secretary during my unplanned trip to Florida.

Respectfully submitted, Fred Adsit, NY2V, Secretary.



This is the Elks Club of South Kansas City, located at 99th and Holmes, Kansas City, Missouri, where Chapter 35 meets weekly for informal luncheons on Thursday at 11 AM. Photo courtesy WØGJG.

Chapter 35, Kansas City: QCWA around metro KC keeps going and going. We've had our semi annual Banquet for the guys and gals, and we continue to meet weekly, on Thursdays at 11 AM at the Elks Club in South KC, talk in on 34/94 and 37/97. Weekly QCWA gab fest luncheons continue to attract 20 to 25 persons.

We welcome our newest member, Beryl Masters, WBØEJJ, of KC who has been attending QCWA functions as a "guest" waiting for his 25 years to accumulate—now is a QCWA member! Congratulations Beryl, you made it!

Beryl runs the Midnight Paul Revere Net on Saturday nights. He has check-ins ranging in numbers from 75 to 300. Beryl is also the "ears" of 34/94 and can be reached for communications of

any kind around the clock. He holds an Extra Class license, and is blind.

Respectfully submitted, Cass Cassing, WØGJG, Publicity Chairman.



Gator Chapter 32, Clearwater, Florida, installed officers for 1995 at the regular meeting January 7. Pictured from left to right are: Art Monsees, W4BK, Director; Bill Carpenter, N4PEO, Treasurer; Bill Bell, K4AVH, President; Eli Nannis, K4JMK, Director; Frank Obenauf, W2IAJ, Vice-President; Wes Randles, W4COW, National Treasurer (installing officer), and Bart Bridge, W2ZYQ, Secretary. Photo courtesy W2ZYQ.

Chapter 37, Harrisburg: Chapter 37 held its quarterly meeting on December 10 at the Bonanza Steakhouse. Twenty-seven members and eight guests were present.

The group paused to remember two friends from adjacent QCWA Chapters who recently became Silent Keys, W3AQN and W3HOF. They will be missed.

Our speaker was Joseph L. Lockard. Joe was one of the radar operators on duty in Hawaii on December 7, 1941, when Pearl Harbor was attacked. Joe's presentation was mostly about the type of equipment used. Most of the younger members present were amazed to hear that the frequency used for the radar was in the 100 MHz range and that the direction finding was done by yelling to a second operator who read the heading from a dial on the antenna rotator when the signal peaked.

I was surprised to notice our usual meeting place for our quarterly meetings had gone out of business just before time to send out the meeting notices to members. I quickly made arrangements at another restaurant. Therefore, Chapter 37 met on March 11, 1995, at the Bonanza Restaurant in Carlisle instead of Mechanicsburg. Twenty-six members and one guest were present.

Mert Baird, W9GZV, was reported to be a patient at Hershey Medical Center for some surgery.

Irv Sanders, K3IUY, reported that net activity was still good even on March 8 when a repeater outage caused us to resort to simplex. Irv also provided lists of upcoming hamfests to the group.

The group held its election of officers. The results were: President, R. Marshall Stenger, W3KRM; Vice President, Glenn Kurzenknebe, K3SWZ; Treasurer, George Kabroth, W3PLI; and Secretary, Dave Barrows, W8IJ.

In other words, the incumbents were reelected. Marshall stipulated that he would only be willing to serve again if the group agreed to meet in the same location for the next year. To Marshall's surprise, a majority agreed. (The new location was not popular with several members because it was more out of the way than our previous site.)

Respectfully submitted, David O. Barrows, W8IJ, Secretary

Chapter 38, San Antonio: We meet at 11:30 AM on the fourth Saturday of each month except in June and November when we meet on the third Saturday and in December when we do not meet. Due to

conflicts with other Amateur radio activities, the meeting date may occasionally be adjusted. We continue to seek a permanent meeting place. For confirmation of the date time and place of the next meeting, call Jim Wright, K5CDT, at (210) 655-2346.

At our monthly meeting on November 19, 1994, our chapter's president, Milton Haines, W5QCD, appointed a nominating committee consisting of Gus Gikas, W5HRF, Chairman, Bert Walker, KØJH, and Clay Laster, W5ZPV. They were charged with presenting a slate of officers for 1995. It was announced that, as usual, there would be no meeting in December.

Many of our members attended the annual San Antonio Amateur Radio Christmas Party on December 17, sponsored by the San Antonio Radio Club. The chairman of the committee handling this year's party was our own Ken Harwood, WA5QZI, who did an outstanding job. At the QCWA table, we were honored to have Tom Comstock, N5TC, ARRL West Gulf Division Director, and his wife, Judith. A good time was had by all.

At the January 28, 1995 meeting, the following of officers were elected for 1995: Ray Wangler, W5EDZ, President, Gus Gikas, W5HRF, Vice-President, Jim Wright, K5CDT, Secretary and Ken Harwood, WA5QZI, Treasurer.

Respectfully submitted, Jim Wright, K5CDT, Secretary.

Chapter 41, Dallas: A record setting number of members turned out to honor long time member and early chapter president Gus Howard, W5KM, on the occasion of his 90th birthday.

Gus, who was introduced to the wireless telegraph code while a Boy Scout in 1916, has been involved in Amateur and, later, commercial radio ever since. By 1917 he was "registered" as a wireless operator and by 1921 a fledgling government agency had "licensed" him with the assigned call of 5KK. By 1923 vacuum tubes had become both generally accessible and of value to the budding experimental amateur market enabling him to progress from spark to voice. In 1927, he obtained first "real radio job" as a constructor of radio transmitters for the geophysical division of Sun Oil Company. When the Great Depression curtailed the job in 1930 he soon found employment with the City of Dallas police department building and installing "one-way radios" in police cars (the predecessor of the modern 2-way mobile radio). By 1933 his technological reputation and level of licensing gained for him an offer of employment by The Dallas Morning News to operate and maintain the 50KW transmitter of its pioneer radio station, WFAA (founded in 1922 and a major present-day television station).



Gus Howard, W5KM, along with his wife, Annie, is honored by Chapter 41 on the occasion of his 90th birthday.

In 1940, following a demanding 3-day competitive examination administered to him a year earlier, he was offered employment with the Radio Intelligence Division of the Federal Communications Commission and embarked upon a fascinating

radio-related career that spanned thirty-two years to his retirement in 1972.

In addition to his technological prowess he is also an attorney, a useful adjunct in regulation matters. Gus enjoys a well earned reputation as a raconteur of many funny stories garnered over a lifetime of association with radio operators in all walks of life and endeavors. Additionally, he has for many years been an outspoken advocate of amateur radio as a catalyst for inspiring students to pursue studies in mathematics and the natural sciences. Gus Howard is a testament to the ideals upon which international Amateur Radio was founded and flourishes.

Respectfully submitted, Bob Olney, N5NT.

Chapter 42, Mohawk Valley: Forty-two members and guests met for an oriental and western dinner Ricky Ly's Restaurant Saturday, November 19.

The principal business of the evening was the unanimously voted-upon motion to continue Chapter 21's practice of honoring its Silent Keys by sending a donation of \$75.00 to the Business Office of QCWA to be applied to the Scholarship Fund. Those so honored this year were: Ev Gibbs, W8AO; "John Paul" Leichtamer, W8BCB; and James R. Green, W8MEI.

The evening's program was presented by immediate Past President Mel, W8MV, who narrated an audio visual scrapbook of his recent vacation in Southeast Asia.

Respectfully submitted, Myron R. Koyle, N8DHT, Secretary-Treasurer.

Chapter 46, Founder's: The Founder's Chapter 46 luncheon and meeting was held on January 14 at Niederstein's Restaurant in Middle Village, Queens.

After a very good luncheon for which Niederstein's is noted, our meeting began with our president Arthur, K2BHV, singing the opening greetings to not only our local members but also members from Long Island and Hudson Valley Chapters. Art gave a short talk on a system of programming using a slide projector and audio system tied together to produce a program with slides, talk and music which would run automatically. He was unable to demonstrate such device because we were not sure of the facilities at the restaurant.



Pictured are some of the members in attendance at the Chapter 46 luncheon meeting. Photo courtesy W2AUF.

The next speaker was Dave, W2AUF, who had been requested to talk about pipe organs which was described as having started in 300 BC. This Hydraulos in the beginning going through the centuries each time a country's developing to the modern day monster in cathedral, auditorium and theater. Several of the present day pipe organs in use around the country as well as some well known organists from the past to the present day were illustrated.

According to remarks heard after the meeting, everyone seemed to enjoy the meeting and luncheon and were looking forward to the annual meeting to be held at the United Nations.

Respectfully submitted, David W. Winter, W2AUF, Secretary-Treasurer.



Pictured are five of the honorees who attended Chapter 48's 1994 Award's banquet. From left to right, Pearce Chauncy, KD4YP; Karl Gantsler, W4PSG; Charles (Bud) Greenlees, K4DHW; George Martens, N7MIU; and Bill Jordan, NF8W. Photo courtesy Chapter 48.

Chapter 48, Treasure Coast: The following is from the March 20, 1994 Vero Beach, Florida "Press Journal":

"Thirty-seven members and guests of the Treasure Coast Chapter of the Quarter Century Wireless Association recently attended the annual awards luncheon held at Palm Court restaurant at the Days Inn Resort on Vero Beach.

"QCWA [Chapter] President Jack Novotny handed awards for years service in Amateur Radio to Pearce Chauncy and Don Paddock for 65 years, Karl Gantsler for 60 years, George Martens, Bill Jorden, Bud Greenlees, and Vic Chamberlain for 55 years and Ed Chaya for 50 years.

"Any Radio Amateurs licensed 25 or more years who are interested in joining the group can contact Bill Wrocklage, P. O. Box 781614, Sebastian, FL 32978."

Nice work, Chapter 48!



Receiving a variety of awards at Chapter 49's Christmas meeting are (l-r): Jud, W4NZJ; Wendell, K4VN; Bruce, W4BFR; Marvin, W4IIAH; and Bill W4DQT. Not shown are: Pete, W4AUP; Ben, K4EZ; Ed, N4CIIB; and Dave, W0MHS. Photo courtesy K4FXB.

Chapter 49, Atlanta: Chapter 49's annual Christmas meeting was held December 3, at Morrison's Cafeteria in Atlanta. The room was appropriately decorated for the season, thanks to Joan Cushing, wife of Wendell, K4VN. Following a pleasant luncheon and a discussion of Chapter business, gifts were distributed to all in attendance. Wendell's wife, Joan, acted as Santa Clause.

The highlight of the day's activities was the presentation of several awards. Frequent Net participation was recognized with QCWA badges going to President Jud Whatley, W4NZJ; Wendell Cushing, K4VN; Pete Sides, W4AUP; Bill Plage, W4DQT; and Bruce Montgomery, W4BFR. A 60-Years in Ham Radio certificate

was prepared for Ed Harrison, N4CHB. Marvin Ollendorf, Jr., W4HAH, was really taken by surprise to receive this year's Meritorious Award. He was as surprised as he was deserving. Vice-President Frankie Womack, W4BJT, presented certificates to the 1994 QSO Party Participants: Dave Fisher, W0MHS, now a Chapter 160 member; Jud Whatley, W4NZJ; Ben Adams, K4EZ; and Wendell Cushing, K4VN.

Respectfully submitted, Philip I. Goodman, K4FXB.



Chapter 51 1995 Officers are: standing left, Tom Housenfluck, W5HY, President; seated center, Dee Evans, W5BEU, Secretary-Treasurer; and standing right, Claude Bonner, W5OZY, Vice-President. Photo courtesy W5BFF.

Chapter 51, Tex-La Golden Triangle: The November and December meetings were held at Dorothy's Front Porch. At the November meeting Phil Richards, K5INE, reported on the QCWA national convention in El Paso and passed around his meeting badge with a Mexican ribbon.

Al and Sylvia Long, W5EKE, celebrated their 62nd wedding anniversary and Phil and Blanch Richards were close behind with 58 years of wedded bliss. Steve Gomez, KE5O, was commended for furnishing the NASA shuttle audio on the 147.56 MHz repeater.

At the December meeting out-going President Dub George, W5BFF, reviewed the past year's activities before turning the floor over to John Lindell, W5YCY, who inducted the following new officers: President, Tom Housenfluck, W5HYD; Vice President, Claude Bonner, W5OZY; and Secretary/Treasurer, Dee Evans, W5BEU.

The January meeting was held at the Boondocks Restaurant with 37 members and guests present. Dub George demonstrated a Christmas present from my wife Mary Jean, WB5FQX, a Timex-Microsoft Data-Link watch. The face sports an optical input (similar to a bar-code reader) that inputs data directly from a VGA computer screen. Windows software included with the watch stores phone numbers, appointments, anniversaries, a to-do list and alarms in an IBM PC. The data is easily transferred to the watch through the optical input. It also shows time in 12 or 24 hour format in any two time zones.

The local QCWA net continues to meet Monday evenings at 6:30 PM on the local 146.70 repeater with 12-15 checking in.

Respectfully submitted, Dub George, W5BFF, Bulletin Editor.

Chapter 53, Suncoast: The Suncoast Chapter held their regular monthly meeting at Mrs. Applebyes in Sarasota on February 1, 1995. There were 28 members and guests present.

President John Karban, W3IGC, called the meeting to order. As neither the secretary or treasurer were present, John gave a brief report for each.

Bob Siff, K4AMG, reported on the Chapter table at the Sarasota hamfest. He and John Willig, W8ACE, manned the table

both days. More people will be needed to man the booth next year as there seemed to be a lot of interest in QCWA activities.

Bob then reported on checking with the Elk's in Sarasota for a meeting place. It was voted to check them out completely and to hold meetings there for awhile to check out the place. Meetings will be held on either Wednesday or Thursday. After a decision is made, all members will be sent information and a map of the location. Phone callers will be instructed to list names of those coming as we will have to make confirmed reservations.

There followed a brief discussion of possible programs.

An excellent roster has been compiled and all those involved were given a round of applause for their work.

Officers for the year are: President, John Karban, W3IGC; Vice-President, Croft Taylor, VE3CT; Secretary-Treasurer, Virginia Menerick, W1MEJ, and Historian, Robert Bookwalter, W4NWF.

Respectfully submitted, Robert Bookwalter, W4NWF, Historian.



Chapter 59 President John Moss, NO9V (r), presents John Vasicak, W9ZEN, a 50-year ARRL membership plaque at the fall Chapter meeting. Photo courtesy W9ZEN.

Chapter 59, Central Illinois: It was dining by candle-light at the fall meeting of Central Illinois Chapter 59. The meeting was held on the evening of October 15, 1994. At the Elms Supper Club in El Paso, Illinois a power outage occurred because of a blown power transformer but thankfully, only after the food was prepared.

President John Moss, NO9V, welcomed 44 members and guests. John Vasicak, W9ZEN, gave a short prayer. Introductions of those in attendance was the next order of business. Prior to the business meeting all in attendance enjoyed a fine dinner as prepared by the staff of the Elms.

Business meeting was brief. A period of silence was observed for those members who became Silent Keys since our last meeting. President John Moss, in the absence of ARRL Central Division Director Ed Metzger, presented John Vasicak, W9ZEN, with a 50-year membership plaque.

Entertainment for the evening was presented by Bud Hinck, from Washburn, Illinois. Bud is a well-known wood carver in central Illinois. His display of carvings was well received. Some of the carvings included fish, ducks, flowers, and other animals made for a very interesting presentation, another hobby to pursue during the bad "band" conditions.

Following the entertainment a prize drawing was held and adjournment took place.

The next meeting of Chapter 59 will be held on Saturday April 8, 1995, at the same place, the Elms Supper Club, El Paso, Ill.

Respectfully submitted, John M. Vasicak, W9ZEN.

Chapter 62, Suwannee: In our April meeting, President Jim, K2SN, said he would present the program since the scheduled speaker was struck speechless that morning by a cold. Our Secretary reported on SK notices concerning 1981 President Tenny Freck, W4WL the Stop Turning Out Prisoners Florida Constitutional Amendment petitions sent via our newsletter Zero Beat, and 59 QSL cards of former and present members on display. Ray, W1RFE, Adis, W4PFJ, Daisy, W4OAV, and Bob, W4PFQ asked to be sent new Form 610s for recently changed ZIP codes and other normal usage. Jim announced that he had obtained a re-issued FCC license, a reinstated National membership (#209!), and a renewed Chapter membership for Charlie Sauer, W1WX, now in a local retirement home. He invited all present to join the Officers and Directors in visiting Charlie after the meeting for presentation of his 70th Anniversary Award. We gave a loud round of applause to Jim for this labor of love on behalf of a fellow ham and long-time member. NB: In a ceremony following the meeting, the officers and directors displayed the documents to Charlie in a photo opportunity, he enjoyed the attention thoroughly!



Charlie Sauer, W1WX, displays his 70th Anniversary Award, presented to him by Chapter 62 President Jim Keele, K2SN, as Vice President Jim Armstrong, N4IIZR, and Treasurer Tom Brumbaugh, KI4CX, look on approvingly. Photo courtesy AG3S.



Outgoing Suwannee Chapter President Aden J. "Jim" Keele, K2SN (l), is presented with his Certificate of Appreciation by Ray Chartier, W1RFE. Photo courtesy AG3S.

In our June meeting, W2HD, reminded members via the Hotline Report that Chapter members must also be QCWAers in good standing, that we had lotsa new Form 610s on hand, and that three recent newer members had replaced three non-renewing members.

We voted to say the Pledge of Allegiance to open all meetings, and to obtain a table-mounted flag to assist that endeavor. The day's program was an enjoyable, solemn and moving exercise in nostalgia. All present contributed their personal remembrances of "Where I Was on D-Day, 1944."

Our annual meeting was held, as per our Constitution, December; it began as usual with the invocation by Chaplain Bob Henry, W4PFQ. After interlude for lunch, the business portion began with a newly begun recitation of the Pledge to the Flag. After the October minutes and the Treasurer's reports were accepted, newly elected officers and directors for 1995 were presented to the members

by having them stand. They are: President Bob Saulpaugh, AG3S; Vice-President, Jim Armstrong, N4IIZR; Secretary, Adis Henry, W4PFJ; Treasurer, Tom Brumbaugh, KI4CX; Directors, Alicia "Daisy" Coleman, W4QAV, and Roland "Rollo" Medler, W4ANN. We hope to take a group photo in February. Prospective member Charlie Wetzel, W3MIU, and his wife, Doris, both snowbirds from Yankeeland, were introduced. Ed Petroski, AC4DE, and Bob Henry, W4PFQ, volunteered to audit financial records for 1994. As a final and important business item, our only four-term president Ray Chartier, W1RFE, presented to our outgo President Aden J. "Jim" Keele a Certificate of Appreciation for his "dedication, leadership, and creativity" signed by all officers and directors. Jim has been president twice—so far. The meeting closed after an interesting and humorous program on animal "adoption" procedures by the director of the animal shelter of our local Humane Society.

Respectfully submitted, Bob Saulpaugh, AG3S, Secretary.



After nearly 66 years Mel, W5AXM, left, finally reciprocates Gail, W5ADV's QSL for a May 1929 CW QSO at the February 25 Chapter 63 luncheon. Photo courtesy N6CL/W5FLO.

Chapter 63, Central Oklahoma: After being snowed out the month before, we had our first quarterly dinner at the Ryan's Family Steak House in southwest Oklahoma City. Every one who attended said they really enjoyed the meal and the meeting that followed.

President Carol King, K5CPZ, called the meeting to order. Carol asked if there was any old business—there was none. Under New Business, the results of the election for two directors and a secretary-treasurer was given and Norm, W5FLO, presented the Certificates and Awards.

After counting the votes, the Nominating Committee reported that Sam-, WA5WHO, and Jim, KK5BX, were declared the winners for the two Directors' positions. Norm, W5FLO, will remain the Secretary-Treasurer.

We, of the Chapter 63, would like to give a great big thanks to Jay, W5QVS, and Jim, W5VSW, for the great work they have done as Directors for the last two years. They are the outgoing Directors.

Mel, W5AXM, upon finding an old QSL Card from Gail, W5ADV, whom he had worked on CW back in May 1929 and had not sent Gail a QSL card in return, presented him with one. *Nothing like being 60 years late!*

Certificates for 65 years Anniversary Awards were presented to three of our members: Gail Benson, W5ADV, Mel Bolger, W5AXM, and Ed Oldfield, W5ADV. Ed was also presented the QCWA Century Club Award.

Certificates for 60 years Anniversary Awards were presented to the following members: John Dalby, W5COE, George Bunce, W5DKC, Leland Black, W5MCN, Fred Boardman, W5NL, and Wilhelm Wesenick, W5NQF.

Certificate for 55 years Anniversary Award was presented to Ellard Foster, W5KE, and Ellard was also presented with the QCWA Century Club Award.

Jay Ingram, W5QVS, was presented the Meritorious Award from Chapter 63 for the year of 1994.

Certificates of 60, and 55 years will be given to or mailed to the following members who could not attend the dinner: Jack Gant, W5GM, 60 years; George Clark, W5JKK, 60 years; Norm Jessup, W5EHR, 60 years; Jerry Broudy, W5MCJ, 55 years; Elmo Black, W5JCB, 55 years; Al Rauscher, K5CXP, 55 years; Bob Ashby, W5HXL, 55 years; Dr. Bill Hubbard, W5HXR, 55 years; and Arthur C. White, NEST, 55 years.

Respectfully submitted, Norm Wilson, W5FLO, Secretary-Treasurer.



Pictured are Chapter 65 officers and directors for 1995. Photo courtesy W2AET.

Chapter 65, Niagara Frontier: Our December Christmas Party had 38 in attendance. Members participated in a very interesting old-time radio quiz formulated by President Bob Rooney. Winners: tied for first place were Tom, W2QI, and Ken, K2FJ. Second place winner was Bob, K2VNM. Cookies were supplied by several spouses.

On December 25th, our Chapter lost a dear friend and old timer. Ray "Slim" Griswold, 88, W2SD left us after a lengthy illness. Ray was first licensed in 1924 as 8DPL and was active on the Amateur bands for the most part since then, and was NCS on the Sunday Chapter Net for many years. Our Chapter 65, Niagara Frontier was founded by Slim in 1973 and he was President from the beginning. Ray was a broadcast engineer at WKEN and WEBR Buffalo. He made tape recordings for shut-ins for many years. We will miss him.

Welcome to a new member Al Gritzmacher, AE2T, of Thockport. His first call was WN2KJT in 1969.

For the Annual Report for the year 1994, we show a total of 43 members. New members were 5. Members dropped were 5 (includes 2 deceased).

Respectfully submitted, Ken Palmer, K2FJ/ZB2G, Secretary.

Chapter 70, National Capital: The last meeting of QCWA Chapter 70 was held at the Carlingwood Family Restaurant in Ottawa on November 16th, 1994. This was the Annual Meeting night. The slate of officers for 1995 will be: Bill Barrie, VE3AAS, as President, Croft Taylor, VE3CT, as Past-President, Jack Tennant, VE3AHZ, as Vice-President, Jim Dean, VE3IQ, as a Director, Gord Grant, VE3DY, as a Director, Keith Bedal, VE3GFI, as Secretary-Treasurer.

The speaker at the Annual Meeting was Bill Wilson, VE3NR. Bill spent many years working for the Canadian Department of Communications as a Spectrum Manager. He had many interesting experiences to tell us, especially with respect to the several trips he made to Geneva as a Canadian delegate to the ITU Conferences. A

memorable moment at this meeting was the presentation of a 45-year pin to John Athey, VE3GS.

A meeting of the new executive was held at the home of Croft Taylor, VE3CT, on January 8, 1995, to develop programs for 1995. We have held two organizational meetings to plan for the 1996 QCWA Convention to be held in Ottawa.

We would like to remind everyone that the weekly Thursday morning breakfasts are still continuing. These are held at 0930 local time at the Embassy West Motor Hotel in Ottawa.

Respectfully submitted, Keith Bedal, VE3GFI, Secretary-Treasurer.

Chapter 72, Fort Worth: Eight members of Chapter 72 ventured down the Trinity to help the Dallas Chapter celebrate Gus Howard, W5KM's 90th birthday. It was a pleasure to hear him say that he got his start in Amateur Radio when he joined a Scout Troop and the Scoutmaster put him in charge of communications. He learned the Morse Code and Semaphore and taught others in the Troop. Just another story of how Scouting helped to turn a boy in the right direction (and Amateur radio-ed). 73 es gud scouting.

Respectfully submitted, Dan Dansby, W5URI.

Chapter 77, Northern New Jersey: In the last issue of the *JOURNAL* we listed William P. Fisher, K2GVC, as Feescher. We regret the misspelling of his name and apologize to him for doing so. -Ed.



Recipients of certificates at the Chapter 79 February meeting are, from left to right: Ernest Dinsmore, WA0LYX, 70 years; Del Patterson, W0JCY, 55 years; Jim McKim, W0CY, 60 years; and Lyle Surtees, W0UUS, 60 years. Photo courtesy W0JCY.

Chapter 79, Sunflower: The Sunflower Chapter 79 held its February 22, 1995 meeting at Our Family Restaurant in Wichita. It was attended by 17 members and guests. After a short business meeting, QCWA awards for years in Amateur Radio were presented to the following members: Ernest Dinsmore, WA0LYX, 70 years; Jim McKim, W0CY, 60 years; Lyle Surtees, W0UUS, 60 years; and Del Patterson, W0JCY, 55 years.

Not present to receive their awards were: Walter Wessel, W0CM, 65 years; and Eugene Tuel, W0VWW, 55 years.

Jim McKim's 60-year certificate was issued in July 1993 and sent to Chapter 53, but was lost and never presented to him. Jim holds membership in three Chapters, 53, 79, and 110. He is a charter member of Chapter 79 and currently is its president. We presented him with a duplicate award.

Other members of the Chapter are now eligible for awards and these will be presented at a future meeting.

Respectfully submitted, Del Patterson, W0JCY, Secretary-Treasurer.

Chapter 81, Long Island: Our fifth bimonthly meeting was held on December 15. It was our holiday meeting. The clubroom was festively decorated and mild libation was served to further stimulate the good fellowship. The speaker was Steve Mendelsohn, WA2DHF, ARRL

Hudson Division Director, who brought us up to date on happenings in the ARRL and FCC. Inasmuch as the winter season is not conducive to outings, our last quarter was quiet. Our annual election was held and the new officers are: President, Kate Saul, AE2Z; Vice-President, Charles Baker, W2KTF; Secretary, Herman Milatz, W2TLC; and Treasurer, Hugo Landerer, W2IGH. While all previous meetings have been on weekday nights for dinner, our next meeting (February) is planned for a Saturday noon luncheon. This is for the benefit of those who do no longer drive at night or in snowy inclement weather and those who live outside of logical limits for night driving. It is considered an experiment.

Respectfully submitted, Herman Milatz, W2TLC, Secretary.



Chapter 81 President Kate Saul, AE2Z, presents Jay Altman, W2DX, his 55-year certificate. Photo courtesy W2AUF.

Chapter 87, Evergreen: Plans for our Annual Spring Bash are progressing rapidly. We just received confirmation from our guest speaker and that has removed a lot of tension.

Our program will be presented by Captain Al Haynes of United Airlines who was the pilot of a DC10 that crash landed in Sioux City, Iowa a few years ago. Since his retirement he presents his program all throughout the country. We feel very fortunate to be able to see and hear his illustrated speech.

Anyone in the Spokane area on April 15 and would like to be present please contact this writer for tickets and information.

The wife of Don, W7VOU, told us a hair-raising story on him at our recent luncheon in Moscow, Idaho. Seems that as she was in the shower a neighbor phoned Don and told him there was a cougar loose in the area. (They live outside of town in a forested area.)

Don dropped the phone and picked up one of his many rifles and proceeded to try to load it. (He hadn't used this one for a long time.) Finally he got the bullets into the gun...then the fun starts. After many tries a bullet entered the chamber. As he tried to close it the gun went *bang!* And this in his bedroom. The bullet went through a chest of drawers, passed through the bedroom wall, across the room and through the outside wall. Of course, his wife came out of the bathroom expecting to see a Silent Key (Don was OK). His wife then looked into the chest and found that his misfire not only destroyed the chest of drawers but also most of her unmentionables.

It was later learned the cougar was a neighborhood pet so Don lucked out by shooting only his wife's undies and not the cougar.

Our area has enjoyed a very mild winter until the first of February when the Arctic Express came to visit us. Wind chill hit minus twenty and about a foot of snow fell. Thanks to the KL7's and VE7's for sharing with us.

Our Secretary as a member of the National Nominating Committee is diligently searching for any member West of the Rockies who is willing to have his name offered as a candidate for the office of Director. Please mail your resume and permission to submit your name for nomination.

Our good member, Ken, W7CVJ and his wife just left to spend six weeks in New Zealand. He lived there for six months when

he was teaching Forestry at the University of Idaho. We are looking forward to his return with stories and movies of his visit.

Among our newer members we have Reginald Hoskin, W7ROL. We have singled him out since he received his first license in 1919 and his call was 9EML. He is well into his 90's and lives alone. He checks into our Sunday every meeting without fail. He was telling us that one week he looked at the wiring in his basement and it looked so poor that he immediately rewired the whole place.

Reg, we are all very happy to have you with us as a member of Chapter 87. For your information, his National number is 1672.

We are sorry to report that one of the original founders of this Chapter has been diagnosed as having Alzheimer's disease and has been confined to The Veteran's Home in Lewiston, Idaho. He is Geoff Woodhouse, W7FL, who resided in several cities in Montana, Idaho and Washington during his illustrious career in field of electrical engineering. To top off his ailment he recently fell and fractured a hip from which he is now recovering.

Jay, W7RWL has a new hobby. He is reworking all of his home movies from his Camcorder and is editing them with voice descriptions along with a musical background. What a nice way to personalize your work. Next thing we know he will be heading for Hollywood.

We invite other chapters to join us every Sunday at 0730 PST on or about 3984 kHz. We would like to visit with you.

Respectfully submitted, Al Cutting, W7ENQ.



Members of Chapter 100 in attendance at our January meeting were (l-r): Randy Watkins, W4KL; J. C. Hopkings, W4WFZ; Frank Thomas, W4QDM; Andy Anderson, K4PSW, with charter; Joe Good, W4HRR; Charles Wright, W4PED; and Roy Robinson, K4EDU, holding banner. Photo courtesy K4PSW.

Chapter 100, East Georgia: Greetings. We hold dinner meetings quarterly and our January meeting was the smallest in attendance due to heavy rain.

We are all doing well and see each other almost daily. At our dinner meeting we bring the wives and have a good time. More social than radio. All members look forward to receiving the *Journal*. It is very informative.

Respectfully submitted, Andy Anderson, K4PSW.

Chapter 107, Central Florida: Central Florida Chapter 107 held its first meeting of the new year at Stacy's Buffet on US Highway 98 N. Lakeland, FL. We got off to a good start with 38 members and guests present.

The highlight of our meeting was the installation of our new officers for 1995. The outgoing president Dan Child, W3IUW, passed the gavel to Ed Reed, AC4NF, the new president. The new vice president is Bob Phillips, N4OZN. Wallace Child, WB8NTG, is the new secretary. Frank Mason, W4TIC, will carry on as treasurer for another year.

At this meeting we also presented 55 Year Certificates to Norm Darch, W2HGV, and to John Spark, W4LHP. A 60 year Certificate was presented to Walter Farley, W4QE. Our

congratulations go out to these fine Amateurs who represent a lot of years in Amateur Radio.



Passing of the gavel of the presidency of Chapter 107. From left to right, Vice-President Bob Phillips, N4OZM; incoming President Ed Reed, AC4NF; and outgoing President Dan Child, W3IUW. Photo courtesy K8YGH.

With our new officers and a good meeting to start with we look forward to a very good year.

Chapter 107 invites all Amateurs visiting in our area to attend our meetings which are held the third Saturday of each month at 11:30 A.M. at Stacy's Buffet 4320 US Hwy 98 North, Lakeland, FL (one mile north of I-4)

Respectfully submitted, Jay Hitchcock, K8YGH.



President Harvey Turner, WA0OZP, obviously enjoyed presiding over the Kansas Chapter 110 meeting in Brooksville on December 11, 1994. There were 27 in attendance. Photo courtesy WA0YML.

Chapter 108, Beaver State: Beaver State Chapter held its first meeting of 1995 in Salem at Neufeldt's Restaurant on January 21 with President Frosty Laughlin, K6HVN, presiding. Vice-President Cindy Wall, KA7IIT, along with 25 fellow members and guests were in attendance. Guests included Colin Gregory, KC7ESM, who now resides in McMinnville but was first licensed in New Zealand in 1947 and Armand Pilote, with his wife, Millie, who had moved to Salem.

QCWA's General Manager Jim Walsh, W7LVN, presented Norris Bundy his 55th Anniversary Award Certificate and to Charles Hash (W7BYB) and to Gordon Tucker their 60th Anniversary Award Certificates.

Frosty's request for members to bring forth some item or items of their workmanship was not too successful in that only two items of equipment showed up. One was a beautiful built receiver of commercial quality workmanship that had been made several years ago as evidenced by its inclusion of hand wound plug in coils and a

hand calibrated main tuning dial. The other item was an RF miniature calibrated RF bridge as was depicted in *HAM RADIO* of October 1977.

The Beaver State HF net which meets each Wednesday morning 0800 Pacific local time on 3906 kHz +/- QRM is enjoyed by a goodly number of Chapter members and other who venture to check-in. During the winter months we hear and clearly read stations as far away as San Francisco and Seattle so other QCWAers give us a buzz and let us wish you a *very good morning* and pass along where and when our next meeting will be held. Give it a try.

Respectfully Submitted, Fred Dickson, W7LBH, Secretary.

Chapter 112, Yankee: The Yankee Chapter Christmas party was held on December 10th at Dewey's Restaurant in Lakeville, Massachusetts. Twenty-five members, guests and friends attended. A social hour proceeded another excellent dinner provided by Dewey's. A short business meeting passed a change to the by-laws clarifying that when the positions of secretary and treasurer are held by one person, no term limitation applies. Following that, gifts were exchanged with President, Len Hadley, W1YGC, acting as "Santa"! Winners of the Door Prizes were Dolly Hadley, W1YGC's wife, and Jack Titterton, W1EOF.

A reunion between Yankee Chapter member Herb Nickerson, NS1P and John Bosse, WA1PFC, was held at the luncheon. Herb and John were friends in Belmont High School but went their separate ways during the 40's. Both became hams but their paths never crossed. Several years ago, John checked one of the CD ROM call collections and found only one "Herb Nickerson". A phone call was the start of a renewed friendship and a regular schedule on 75. The meeting at Dewey's in Lakeville (John's home town) was the first time they had met in person in over 50 years!

A reminder that the Yankee Chapter annual meeting will be held on Saturday, April 29th, 1995. Members should watch for the chapter newsletter for time and place.

Respectfully submitted, Chuck Walbridge, K1IGD, Secretary.

Chapter 115, Chattanooga: Chattanooga Chapter 115 held its spring (annual) meeting on April 19, 1994 with nine members and two guests present. Local Chapter dues were reestablished at \$4 per member, one dollar of which would go to the National Scholarship Fund. In the election for the 1994 officers, the present officers were continued in office. The program, presented by Charlie Curle, AD4F, was a video walk-through of the Ten-Tec plant in Sevierville, Tennessee.

In the July 26th meeting there were nine members and nine guests in attendance. The program was given by Jack Wright, KC4ZEK, who gave a video presentation of the Ocoee River white water race trials in preparation for the Summer Olympics.

In the November 29th meeting, there were nine members and 11 visitors in attendance. Jack Wright, KC4ZEK, gave a program on the status of the Challenger Center. This is the Challenger Center for Space Science Education, part of a nationwide network of centers established in memory of the Space Shuttle Challenger. The Chattanooga Center is the only center with its own building and is on the campus of the University of Tennessee at Chattanooga. It features complete replication of Mission Control, Shuttle, and Space Station facilities, as well as an Amateur Radio station operated by the Chattanooga Amateur Radio Club.

Respectfully submitted, Chapter 115.

Chapter 128, Pelican: The Pelican Chapter 128 has elected officers for the forth-coming year. They are Wesley Randles, W4COW, President; Alan Pickering, KJ9N, Vice-President; Jay Strom, K9BSL,

Secretary; and Donald Bice, W4PCO, Treasurer. The Directors of the Pelicans are: 5 year, Jarvie Mullins, WA4GJH; 4 year, Ralph Luedke, K9MOR; 3 year, Eli Nannis, K4JMH; 2 year, Blanche Randles, W4GXZ; and 1 year, Howard Rubicon, K4GHK. The officers were all installed in a fine fashion by Dave Stocky, K3KE, the Installing Officer.

The Pelican's have been saddened by the death of our Past President Irwin Meyers, WA2YQU. Irwin became a Silent Key on January 3, after a very brief illness.

The Pelicans meetings have been attended by National Directors John Edel, K8LBZ, and Croft Taylor, VE3CT. We at the Pelican Chapter Welcome all QCWA National Dignitaries. It was a double pleasure when Croft joined the Pelican Chapter. In fact, I would kind of guess that the Pelicans have more QCWA National Officers than any other Chapter.

Respectfully Submitted, Jay Strom, K9BSL, Secretary.

Chapter 137, Shenandoah Valley: Twenty-two members and guests attended the January 18 meeting of Chapter 137 at Carper's Valley Golf Club on Route 50 east of Winchester Virginia. A social period at 12:30 PM was followed by a buffet luncheon at 1:00 PM. The business meeting that followed at 1:50 PM was opened by Nat De Gutz, W2CXB, outgoing president, who had served for the past two years. He thanked Guy Black, W4PSJ, outgoing secretary-treasurer and Perry Crabill, W3HQX, outgoing vice-president, for their service to the Chapter.

Nat conducted an installation ceremony for the new officers. John Kanode, N4MM was installed in absentia as vice-president; Perry Crabill, W3IQX was installed as secretary-treasurer. Walter Johnson, WA4HVU, was installed as president and took over conduct of the remainder of the meeting.

Walter advised that our next meeting will feature our own Ed Rich, K3THD, with a program about emergency service. Other programs are pending and he promised that they will be interesting. Walter urged everyone to be active in recruiting new members; at present, the membership is around 30.

Perry Crabill read the minutes of the meeting of November 16, 1994, and also presented the treasurer's report. As of January 18, the balance on hand was \$126.46

At this point, instead of a formal program, the meeting was turned over to the floor for members to recount some of their interesting experiences. Guy Black told about a large antenna installation he saw at Harvard when he was a student there in 1937; it was a broad-band system used for propagation research.

Walter Johnson recounted an incident when he and Doc Sirbaugh scrounged parts to build a 24-volt power supply to operate a piece of military surplus equipment. When the setup was turned on, the basement was filled with smoke and both units were destroyed.

Dave Burns, WA3WHR, told about living near a radar site and how difficult it was to eliminate its interference to broadcast reception. The only really effective way was to completely shield the receiver with aluminum foil or a metal enclosure. He recommended that anyone interested in WW-II radar read the book *The Wizard War* by R. V. Jones, on Winston Churchill's Scientific Intelligence staff. Dave said that the Stealth aircraft techniques that made it invisible to radar were first printed in a little-read Russian scientific report which Lockheed used in their designs.

Charlie Anderson, NF3X, told about a prank at Martin Aircraft played on one of the conceited electronics lab engineers. This fellow believed that nothing he ever did went wrong, so some of his coworkers integrated a long piece of plastic tubing into his current project. At the instant he applied power, a large cloud of smoke came out of the equipment, much to his confusion. The smoke originated from a cigar smoker located at the other end of the plastic tubing.

Roy Cartier, K4AC, had a story about one of the Army radar installations in Hawaii during WW-II. This was a long-range system to detect approaching shipping; everything tested OK, but its range was extremely limited. Roy was called upon to diagnose the problem, and found the equipment itself had no problem. However, when he inspected the antenna, he found that it had been newly painted; it turned out that the paint was the wrong kind.

Dave Burns called attention to the Westinghouse Museum near BWI Airport; it has specimens of W.W.II radar, along with many Other interesting exhibits.

Perry Crabill told about his first ZL QSO; he was very excited to work New Zealand with only 75 watts, then the other station said "My Name is Ian; I'm running 15 watts, and I'm blind." He also told about his first QSO after getting his license in August 1938. It took three days of calling CQ and calling other stations on 40 meters before his 3.5 watt type 47 tube crystal oscillator made a contact across town with Bill Colvin, a ham who was a Navy radioman.

Forty years later, Perry received his QSL card back from Bill, now K4HON in Clanton, Alabama, who wanted to know if he was still using the 47 crystal oscillator. Bill had stayed in the Navy after W.W.II and made Chief Warrant Officer before finally retiring. He and Perry had weekly schedules for a number of years on 40 meters until Bill and his Wife moved to a retirement home in Florida. They corresponded from time to time after that, and then Bill's letters stopped coming. Perry found Bill's name listed among the Silent Keys in the *QCWA Journal* last year.

Ed Rich told about the time he was teaching a course for the Army on 40 kW transmitters. He hooked one up to a rhombic antenna and made some ham band contacts; as a result, he received a citation from Boulder, Colorado, for using excessive power.

Charlie Anderson said that exceptional conditions Occurred during the ten meter contest on December 11; he was working New England Stations not usually heard. During this time he observed some unusual cloud formations. He contacted the National Weather Service and learned that there had been a temperature inversion amounting to 12° C.

Nat De Gutz mentioned that he had worked at Westinghouse during W.W.II on the 270 and 271 radars that were used for long-range search.

After several other comments, the meeting adjourned at 2:47 PM with the announcement that the next meeting would be on March 15 at the same place and time.

Respectfully Submitted, Perry Crabill, W3HQX, Secretary-Treasurer.

Chapter 149, Nutmeg: Sixty-two members and guests attended the winter meeting held at the Manor Inn in Milldale, Connecticut on February 11, 1995.

President Charles Griffen, W1GYR, opened the meeting by asking everyone to introduce themselves and their guests.

During the business meeting Milt Chaffee, W1EFW, reported that we have acquired eleven new members since our last meeting. He then presented the Treasurer's Report. Don Steele, W1NFG, stated that the Secretary's Report was contained in the February "The Receiver".

Cal Bennett, W1KHL, reported that the next meeting will be held on May 13 at the Groton Motor Inn. Cal urged greater participation in the Sunday morning Chapter net which is conducted at 11:30 AM local time, on 3.923 MHz.

Gladys Chase, W1VPF, spoke about the International QCWA Convention, to be held in Manchester, NH on October 13 and 14, 1995. Plans are going well, but she could use a few more favors and prizes, plus a few more helpers.

Charles extended congratulations to Harold Chase, WIEES, on his recent election to the Presidency of Pioneer Chapter 183. According to Milt, Harold has the unique distinction of having served as the President of three New England Chapters, Nutmeg, Pioneer, and Yankee.

Neil Salowitz, WA1CBW, reported on plans for Amateur Radio participation in the World Games of the Special Olympics to be held in New Haven in July. Brian Battles, WS1O is the overall Amateur Radio Coordinator, and the Special Event station will be W1SO, courtesy of Bill Carpenter, W1SO. It will be a truly momentous opportunity to "show the world what Amateur Radio can do".

Al Cohen, W1FXQ, Chairman of the Nominating Committee, offered the following slate: President, Bill Kenefick, AD1I; Vice President, Wayne Shaffer, W3QAN; Treasurer, Milt Chaffee, W1EFW; Secretary, Don Steele, W1NFG; and Activities/Net Manager, Cal Bennett, W1KHL. There being no other nominations, it was moved, seconded and voted that the nominations be closed. The President directed the Secretary to cast one ballot for the slate as presented.

Bill Kenefick, AD1I, introduced the speaker, his son, Bob, WB1CLF, who gave an interesting and informative talk on the effects of exercise upon older persons. Most of us could take a lesson! "Are you fit for the life you are living?"

On a motion from John Huntoon, W1RW, a vote of thanks was given for the editors of our beautiful new Chapter newsletter, "The Receiver". Charles expressed his appreciation for this, but acknowledged that most of the credit should go to his son, Ned, who provided the desktop publishing skills and the name for the publication.

Respectfully submitted, Charles S. Griffen, President.

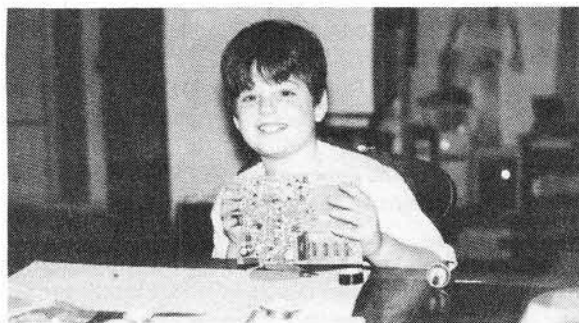
Chapter 152, Royal Palm Chapter: The December meeting of chapter 152 was a Christmas party at the Village Inn in Naples. Our President, Don Miner, and his wife, Rosemarie, arranged the decorations and an interesting gift exchange. As the final item on the program, there was a drawing for the poinsettias. We have an attendance of about 25 at our winter meetings and about 12 in the summer. We try to keep up with our members who go north in the summer through our chapter net sessions.

Respectfully submitted, Myron T. Kelley.



Chapter 152 President Don Miner, and his wife, Rosemarie, presided over the annual Christmas party. Photo courtesy Myron T. Kelley

Chapter 154, Leo Meyerson: By the time this notice appears in print the annual Chapter luncheon staged on Mar. 4 in posh Indian Wells Hotel will be history. This year the program was enhanced by the appearance of various veteran hams who gave of their respective expertise in the opening two seminars staged before the luncheon. A full report will be made in the next edition of the *QCWA Journal*.



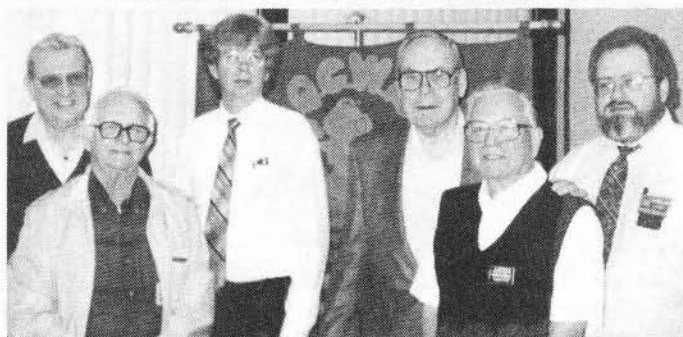
Kyle Salk, KE6LIW, 9 years old, shows off his Ramsey 222 MHz kit he is building. Kyle is a regular on the QCWA Chapter 154 weekly net. He plans on joining QCWA in 2019. Photo courtesy W9VKC.

Meantime, the monthly luncheons continue to draw interesting participants with the real premise of the meetings being a smorgasbord of conversation. If nothing else, old-time hams enjoy talking to each other, and the QCWA meeting present a perfect venue for this activity.

The regular Thursday night QCWA net on two meters drew a record breaking 52 check-ins in one January session. Net control invites non QCWA members into the reporting list in order to have a current account of various operators and equipment available for special use, such as an earthquake or other emergency situation. The net also provides a good recruiting tool for the chapter, as evidenced by several new members that have come aboard recently. The check-ins include two hams, brother and sister, who have yet to reach their teen status. Twenty-five years from now they plan to join the Chapter.

The Coachella Valley served by the net includes Palm Springs, Cathedral City, Rancho Mirage, Palm Desert, Indian Wells, Bermuda Dunes, La Quinta, Indio, Coachella, the Salton Sea, Yucca Valley, Thousand Palms Twenty Nine Palms and Landers. It was the 7.2 earthquake in Landers three years ago that pointed up the value of local hams in emergencies, and the Riverside County fires of last year further cemented the value of chapter hams in these situations.

Respectfully submitted, Sidney R. Rose, W9VKC.



Chapter 158 Officers for 1995 (l-r) are: Jack, W5EKM; Bill, K5SGG; Phil, K5SVS; Bill, W5MH; Chester, AB5QA; and Larry, N5BZB. Photo courtesy WB5VUH.

Chapter 158, Central Arkansas: The fifth meeting in 1994 of Central Arkansas Chapter 158 was held on 17 September at the Baptist Medical Center in Little Rock, Arkansas. Twelve members and guests attended the luncheon meeting.

President Larry Ballentine, N5BZB conducted the business meeting which included the appointment of a chapter officers nominating committee. Members who served on the committee were Chairman, Bob Ideker, WB5VUH, Bill McClintock, K5SGG and Chester Pierce, AB5QA.

Our program was a videotape visit of several Arkansas amateur radio clubs who participated in Field Day 1994. Our thanks to Bob Ideker, WB5VUH, ARRL Arkansas Section Manager for this excellent presentation. Thanks to Larry, N5BZB for providing the large screen projection video system that made for very enjoyable viewing.

Our sixth and final meeting in 1994 was held on 19 November at the same location and had an attendance of 12 members and guests.

Following an enjoyable lunch and fellowship period, President Larry Ballentine, N5BZB called the meeting to order. The major item of business was the election of Chapter 158 officers for 1995. They are: President, William N. Kiser, WM5H; Vice President, John L. "Jack" Peterson, W5EKM; Secretary Treasurer, J. Phil Powledge, K5SVS; Directors, Chester H. Pierce, AB5QA and William C. McClintock, K5SGG. In keeping with Chapter 158 policy, Larry Ballentine, N5BZB will also serve on the Board of Directors as past president.

Our membership at the end of 1994 stands at thirty-six and growing. We are pleased to announce that QCWA member Daniel N. Hardy, N8VV has recently joined Chapter 158. Welcome aboard!

Our first meeting of 1995 was held on 21 January at the same location as the November meeting. It was very nice to start the new year with an attendance of twenty members and guests. Hopefully, this trend will continue throughout the year!

President Bill Kiser, WM5H conducted the business meeting which included discussion of Chapter 158's participation in the upcoming Little Rock Hamfest.

Our guest speaker was Roger Gray, AB5QS, Regional Vice President of the proposed Arkansas Amateur Radio Emergency Communications Systems. Roger gave an interesting overview of this weather/emergency system that is affiliated with the National Weather Service. When completed the system will have seven computer controlled repeaters that will provide approximately 99% coverage of Arkansas by means of an HT radio. We express our appreciation to Roger for this informative presentation.

Respectfully submitted, J. Phil Powledge, K5SVS, Secretary-Treasurer.



Chapter 162 officers for 1995 are, from left to right, front: Ken Knoff, N9NBC, Vice-President; Bill Komistra, W9OVZ, President; and Bob Jensen, W0WLN, Secretary-Treasurer. Rear: Directors Larry McCalvy, WA9JMO; Fern Fisher, W9LCJ; Al Algiers, W9HR; and Bill Hawes, W9ERG. Photo courtesy W0WLN.

Chapter 162, Wisconsin: The November 1994 meeting of Chapter 162 was held at the home of W0WLN, with 14 members and two wives present. A special treat was having Ed Westberg, WA9Y, and his wife Cecilia with us, on a visit from their home in Florida.

Reports were received on plans for the annual Area Ham Banquet and the Ham License Classes being held, from Larry McCalvy, WA9JMO, who is coordinating the license classes. President Ed Konicek, W9NVK, reported on plans for the annual

Christmas Party, for which W9ERG's wife Jean has volunteered to bake cake for dessert.

Bruce Zabler, K9RRS, was authorized to purchase a used Ten-Tec HF rig for the Chapter. It was noted that Chapter subscription prices for the Wisconsin Amateur Radio newspaper, the "Badger State Smoke Signals", were being increased.

Our December meeting at Channing's Restaurant in Racine was our annual Christmas Party attended by 25 members, wives and guests. Table decorations, created by Ken Knoff, N9NBC, and his wife, Marbeth, were awarded to attendees in a drawing. A gift exchange resulted in many thoughtful gifts being received. The recently purchased Ten-Tec HF rig was on display. Decision was made that Chapter dues would remain at \$3.00 per year with an extra \$9.00 for a subscription to "Badger State Smoke Signals".

The first Chapter meeting of 1995 was held at the Southport Restaurant in Kenosha with 12 members and one wife present. Larry McCalvy, WA9JMO, asked for nominations for Amateur Radio Meritorious Service and for Certificate of Appreciation which will be awarded at the Annual Area Amateur Radio Banquet to be held February 25. He also announced that a second round of Amateur Radio license classes would begin March 2 and continue for 12 weeks on Thursday evenings at the Red Cross building. A schedule of Chapter meetings for 1995 was adopted with a Valentine Party in February; Anniversary Party in April; "Mosquito Bash" at N9NBC's home in June; annual picnic in August; Annual Meeting in October, and Christmas Party in December, with regular business meetings on the alternating months. A guideline for the Chapter Sunshine Committee was adopted for recognition of member and family illnesses or deaths.

W9OVZ, WA9JMO, W9NVK, and W0WLN are volunteers to help dispose of Amateur Radio equipment for the estate of former member Olie Fox, K9AKG, who became a Silent Key in September 1994. W9GKM, W9NVK, and W9LDH were appointed to the Audit committee to audit chapter financial records in March. It was announced that the Chapter would again present Amateur Radio demonstrations at the Gifford School campout over three days in May.

Respectfully submitted, Robert N. Jensen, W0WLN, Secretary-Treasurer.

Chapter 165, York Pennsylvania: The Chapter 165 Annual Meeting was held December 10, 1994, at the Stony Brook Family Restaurant, York, PA, with 20 people in attendance. A dinner of Roast Chicken or Roast Beef was had.

After dinner President Carey S. Green, K3IIB, conducted a business meeting, opening with a silent prayer for Clyde H. Boring, W3DJF, who became a Silent Key July 1994 and Paul L. Stumpf, W3AQN, who became a Silent Key November 1994. A Life Membership to Chapter 165 was given to George W. Moran, W2DGZ. President Carey Green was presented the QCWA Meritorious Service Award.

The present Chapter 165 officers will serve in 1995. They are: President, Carey S. Green, K3IIB; Vice-President, Philip W. Steinfelt, Jr., K3SRP; Secretary-Treasurer, Edward H. Kirby, Jr., W3YQJ; and board members, John H. Shafer, W3SST and Raymond A. Shaub, W3AXC.

All ladies present at the meeting were given a pot of poinsettias from Chapter 165. After an enjoyable time between guests the meeting was adjourned.

Respectfully submitted, Edward H. Kirby, Jr., W3YQJ, Secretary-Treasurer.

Chapter 166, Colonial: The annual Christmas party for the Colonial Chapter was held on December 7th at the Country House Inn, Wawa

PA With 33 members and their wives present. The ladies were given a poinsettia plant to take home with them. We are now having breakfast meetings the second Tuesday of each month.

Rotating the restaurant meeting place each month to give a member a chance to have it in his area. Attendance is improving every month. These meetings are for members only, so that the business of the chapter might be conducted. Our next regular meeting will be on March 29th. This is a luncheon meeting.

The chapter passed around a card that was signed by all the members present and sent to Jack Williamson, W3GC, to express our sympathy at the loss of his wife Jean.

Some thought is being given to having our on-air Chapter get together changed from afternoon to the evening hours. We hope to get more input on this.

Bob Thomas, W3QZO, is preparing to give us a program all about the antique wireless goings on. A subject dear to all QCWA members. With Bob's vast knowledge of the subject it is sure to evoke many memories to those in attendance.

Respectfully submitted, Charlie Stouth W3ZPP.

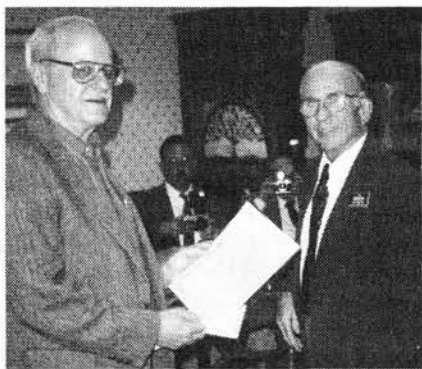
Chapter 168, Oregon Trail: The annual election of Chapter Officers for the coming 1995-1996 year will take place at our luncheon meeting on Saturday April 15, 1995. The location is the Old Country Buffet Restaurant in the Clackamas Square shopping complex located in Southeast Portland.

Our luncheon will begin promptly at 11:30 AM, be there on time so that we can be seated as a group. After the luncheon a short business meeting will be held along with the election of our new officers. Following business, door prizes will be given to the lucky ticket holders. All chapter members are urged to attend so they may nominate and elect those who will serve the Chapter the next 12 months.

Non Chapter QCWA members and other guests are welcome. Let's have a great turnout and rekindle old friendships. Bring a fellow ham to this function so they may become acquainted with others in our wonderful hobby.

If you are a local QCWA member but not a member of this Chapter why not become one. We welcome you. Should you have any questions regarding our chapter or activities feel free to contact our Pres. Bill Payne, K7TDO at (503) 666-9680 or me Fred Behrman, K7LNS at (503) 654-5101.

Respectfully submitted, Fred Behrman, K7LNS, Secretary-Treasurer.



Chapter 181 member Bill Hellman, NA2M, holds Certificate of Appreciation received from Chapter President Dick Robinson, W2OZA, for his informative talk on "Computers and Ham Radio". In the background with cameras are Charlie, WB2ZKS, and Art, K2BHV. Photo courtesy NJ2J.

Chapter 181, Hudson Valley: The last Chapter meeting of the year was held on November 12 at Allie's Restaurant in the Marriott Hotel,

Tarrytown, NY. It was attended by 27 members and guests. The membership roster at this date was 43.

Our speaker, member Bill Hellman, NA2M, presented a very informative and interesting talk on "Computers and Ham Radio". Bill discussed a number of ways in which computers have been used to handle certain ham radio operations. He outlined uses in logging, packet radio, satellite tracking, on-line services such as CompuServe and remote control of stations. A Chapter Certificate of Appreciation was given to Bill.

Three other members took part in what has become a popular part of our meetings. Sandy Fried, N2SP, Bill McCarren, K2LV, and Harry Moore, W2JQS, gave short accounts of when and how they became hams. Harry's account was supplemented by guest Carl Todd, AE1H. They had been neighbors when they were kids and had much fun experimenting with radio and becoming hams.

The Chapter sincerely regrets the loss of member Bernie Dubbs, WA2FSL. Bernie passed away on January 13, at the age of 75. He had been an electrical contractor and was a charter member of the Hudson Valley Chapter.

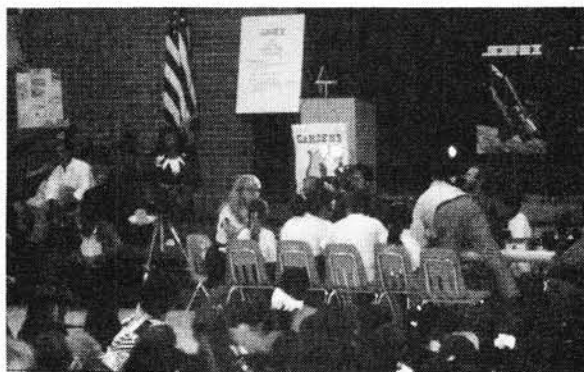
A nominating committee was asked to submit a report before the next meeting, which is tentatively scheduled for April 1995.

After Harry Moore conducted a drawing for some interesting prizes the meeting was adjourned.

Respectfully submitted, Dick O'Brien, NJ2J.

Chapter 184, Bay Area: Arlene Kovak, N5VSP, teacher of the fourth grade students of Gardens Elementary School, in Pasadena, TX, came to our chapter with a request to assist her in our first month of existence as a QCWA Chapter. A year later, in October 1993, we helped with making the contact between her students and the commander of the STS-58 Shuttle crew, John Blaha.

We are very fortunate in that the design engineers of all the Amateur Radio equipment flown on the Space Shuttle in the SAREX program are members of our chapter.



Fourth grade students of Gardens Elementary School (Pasadena, Texas) Students Astronaut John Blaha during the STS-58 Shuttle Mission. Photo courtesy KE5DQ.

Our Elmers trained all the personnel who participated in this contact and members of our chapter supplied and installed all the equipment used.

We are extremely proud of this achievement and we do, indeed, hope that QCWA, in turn, is proud of Bay Area Chapter 184. Write-ups of this event were published in two earlier issues of the Journal.

Respectfully submitted, Peter W. Newell, KE5DQ, Historian.

Chapter 191, Monterey Bay: The Monterey Bay Chapter was officially founded in October 1994 at a meeting held at tile La Scuola

Restaurant in Castoville, California. Our current 24 members come from both Monterey and Santa Cruz counties which share the beautiful Monterey Bay.

At our first meeting the members elected our Chapter's president, Jerry Griffin, W8MEP; secretary, Rob Brownstein, NS6V; and treasurer, Elliot Sperling, KB3LY. Jerry has been most instrumental in getting this new chapter off the ground.



Founding members at the founding meeting of the new Monterey Bay Chapter 191. The Chapter now has 24 members. Photo courtesy NS6V.

At our second meeting, in November, 1994, we elected the vice president, Len Rosen, N2LR; our directors, Rob Chapman, W0ISL, and Frank Mullen, W6SCL; our historian, Dave Bradley, W6CUB; and our net manager, Dave Harbaugh, W6TUW.

Our chapter will be represented at the Sixth Annual Winterfest, one of the most popular ham fests in Northern California, which will be held on January 21, 1995, at the Monterey Peninsula College. In addition, several of our members are gearing up to represent our new chapter in the upcoming QCWA QSO Parties.

The next meeting will be held on Wednesday, April 5th, starting at 7PM, at La Scuola Restaurant. Changes prior to that next meeting will be shared with members on the net, Tuesdays, at 8 PM, on 146.835 MHz.

Respectfully submitted, Rob Brownstein, NS6V, Secretary.

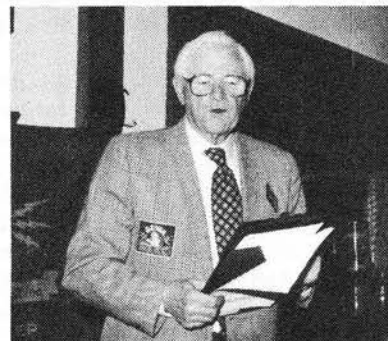
Council of Northeastern Chapters of QCWA, CONEX: On December 3, 1994, the Eighth Annual Meeting of CONEX was held at the Marriott Hotel in Tarrytown, New York.

The meeting was well attended and the meal served was excellent. The following Chapters were represented: Hudson Valley Chapter 181, Long Island Chapter 81, Founders Chapter 46 and the

Twin States Chapter 146. The program consisted of the following: 1. What is going on at QCWA Headquarters?: Milt Chaffee, W1EFW, QCWA Director, wrote a letter regretting his inability to attend. 2.

How the Early Bird Net got started; was presented by W2AUF Dave Winter. (This was the original New England Net NCS by W1DJ.) 3. What is going on in the Middle East; an interesting talk presented by Sy Uter, W2NBT; author of the forthcoming book *MEFTA, A Middle East Free Trade Area*.

After the program, the election of CONEX Officers and Directors was held. The following officers were elected: President: Herman W2TLC. Vice President: Gerry Georgopolis, WF1D and Secretary Art Mayer, K2BHV.



Pictured is Herman Milatz, W2TLC, president of CONEX. Photo courtesy K2BHV.

After the election, a raffle was held and many gifts were distributed to the lucky holders of the winning tickets.

CONEX on the Air Schedule: Sunday's : 3917 at 8:45 AM. Tuesday's : 147.06 FM 8:30 PM. All are Welcome to join the on the air meetings.

CONEX is the Council of Northeastern Chapters of QCWA which is a voluntary association of QCWA members from Delaware to Maine bound together on an informal basis to promote fellowship and increase communication between Area QCWA members.

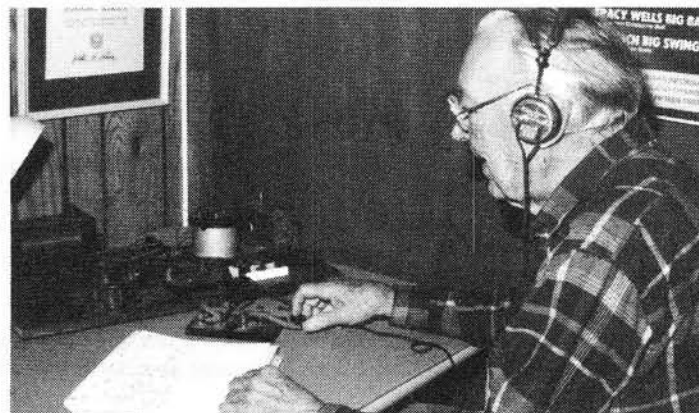
Respectfully submitted, Art Mayer, K2BHV, Secretary.

Chapter Reports Cut-off Date

Please submit your Chapter reports to Editor, QCWA by May 1, 1995, for inclusion in the Summer Issue of the *JOURNAL*. Thanks.

Alvino Rey, W6UK

Nowadays you can find Alvino Rey, W6UK, on 160 meters CW. However, in the spark days Alvino could be heard operating this spark transmitter. If you hear him on 160 today, give him a shout.



Your Official QCWA Badge



Many of you have asked and now we have an official QCWA Badge for you to wear at amateur functions. It is white with black letters and the above is an actual size reproduction. This badge is totally engraved, no 'hot press', and so it should last a lifetime.

The order blank is printed below. It comes with a standard clip and a bolo clip. —

Note that you may order it with a pocket clip at an additional cost

Bolo ties are also available.

QCWA Badge Order

Call _____

First Name _____

Last Name _____

Indicate whether you want your City/State or your Chapter name and Number as bottom line on badge.

1. City and State _____

OR

2. Chapter Name and Number _____

Badge..... \$7.00

Pocket Clip (\$2.00).....

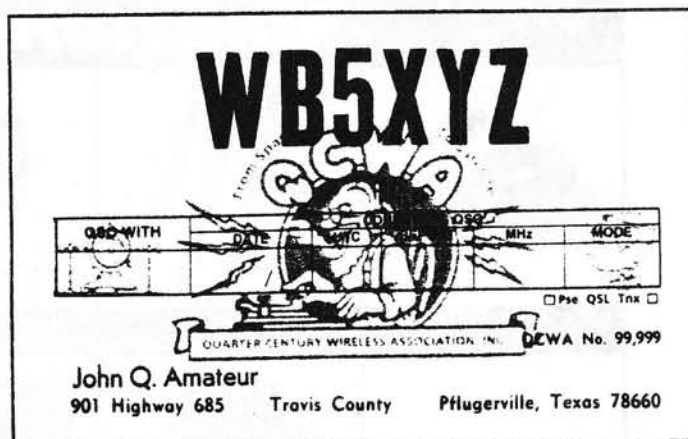
Bolo Ties (\$2.50).....

Bolo tie color(circle one): Black, Blue,
Brown, Green, Red and White.

Total Cost.....

Complete in full and mail with your check to:
QCWA, 159 East 16th, Eugene, OR 97401-4107

Order Your Official QCWA QSL Cards Today . . .



QCWA QSL cards are USA standard size, printed on a heavy stock which is "coated" (shiny) on the logo side. Ink is bright blue with light gray QCWA logo, and you may have your call in either solid letters (above) or shadowed (right). *Be certain you specify the letter style when you order.*

WB5XYZ

If you want your county printed, please indicate so on the order blank. Also, tell us whether you want your state spelled out in full or printed with the standard postal abbreviation. Prices listed below include shipping.

Please print very clearly or type your order.

Order Your QSLs Here

Please print plainly or type

Call _____ ☐ Solid ☐ Shadowed

QCWA Member # _____

Name _____

Street/PO _____

County (optional) _____

City _____

State _____ ☐ Spell out ☐ Abbreviate

Zip _____

Province/Country (if non-USA) _____

Quantity: ☐ 100 \$25.00 ☐ 200 \$35.00
☐ 300 \$45.00 ☐ 500 \$60.00
☐ 1000 \$80.00

Complete in full and mail with your check to:
QCWA, Inc., 159 E 16th Ave, Eugene OR 97401-4107

Grounding & Lightning Protection Solutions



DC BLOCKED 1.5MHz
TO MICROWAVE 20GHz



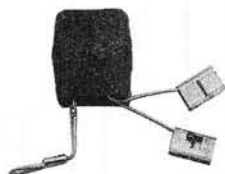
BROADCAST & MILITARY
TO 80 kW



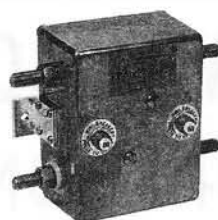
RACK PANEL PROTECTOR
120/240Vac, 15-20A



UNI-KIT COAX
CABLE GROUNDING



DATA/PHONE PUNCH
DOWN BLOCK



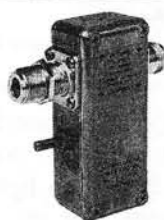
SOLAR/BATTERY



PHONE LINE/LAN/T-1



POWER PROTECTOR
120/240Vac, 15-20A



1.2 TO 20GHz MICROWAVE
& DOWNCONVERTERS



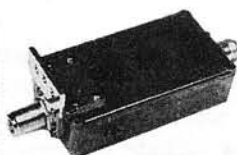
IN-LINE POWER MAINS



COAX PROTECTOR
WITH SAMPLER PORT



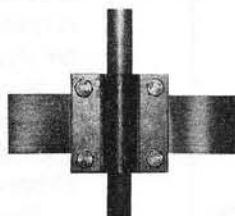
SHUNT-TYPE
POWER MAINS



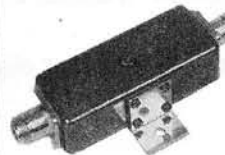
CELLULAR PROTECTORS
TO 380MHz



STRIKE COUNTERS
TOWER/POWER/PHONE



GROUNDING COMPONENTS



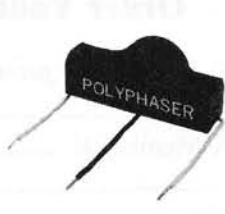
LAN/VIDEO



GLOBAL POSITIONING
SYSTEM (GPS)



UHF COMBINERS



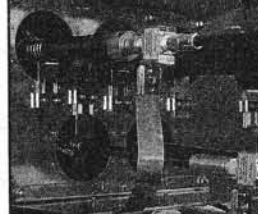
POWER SUPPLY
PROTECTOR



COPPER CLEANING
KIT (CCK)



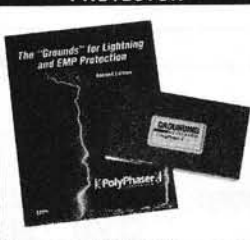
TVRO PROTECTOR
LNB & MOTOR CONTROL



COAX ENTRANCE PANELS



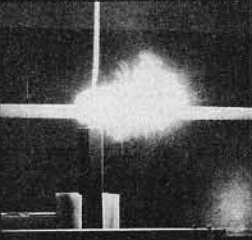
CONSULTING



VIDEO &
TUTORIAL BOOK



TRAINING &
SPECIAL SEMINARS



PRODUCT TESTING



WE EXPORT

When Lightning Strikes...Count on a PolyPhaser®

K PolyPhaser
CORPORATION

(800) 325-7170 (702) 782-2511
Fax: (702) 782-4476 BBS: (702) 782-6728 [8-N-1]
P.O. Box 9000 • 2225 Park Place
Minden, NV 89423-9000
Since 1979

New Members

Date	Mem NR	Name	Call	City	St.	Sponsor	Sponsor's Call
11/30/94	27095	Remington, Alan R	W9MYZ	Bigfork	MN	-	-
12/01/94	27096	Schappacher, Robert N	KE4OWT	Eustis	FL	Harold E Beaver	W0LYB
12/02/94	27097	Ousley, Jacob W	W9BZP	Altamont	IL	Jim Walsh	W7LVN
12/02/94	27098	West, George W	WA2MNV	Monmouth Beach	NJ	-	-
12/02/94	27099	Wiechman, Alvin W	WA0YXK	Salina	KS	Don Fitzgerald	KA0EIC
12/05/94	27100	Bridgman, Gurnee K	W9NT	Bemidji	MN	Ken Covey	W0ZQJ
12/05/94	27101	Brown, Ronald P	AB5WF	Jackson	MS	Harry A Watson	W5AXQ
12/05/94	27102	Conrad, Clifford D	WA6HVV	Reno	NV	-	-
12/05/94	27103	Conrad, Edward P	W7MXJ	Sparks	NV	-	-
12/05/94	27104	Costello, Dave L	W8ATX	Mogadore	OH	-	-
12/05/94	27105	Peters, Charles T	NS7C	Phoenix	AZ	Cliff Bruce	W7ER
12/05/94	27106	Peterson, Gary L	N0ZOD	Spring Valley	MN	-	-
12/06/94	27107	Gascon, Raymond P	W7SJS	Salem	OR	-	-
12/06/94	27108	Rose, Robert J	K6KRZ	Palm Desert	CA	Don Doughty	W6EEN
12/08/94	27109	Knight, John N	K6CXT	Salinas	CA	Gerald Griffin	W8MEP
12/09/94	27110	Brummond, Robert	W9DAJ	Asheville	NC	Blanche Randles	W4GXZ
12/09/94	27111	Olsen, Jackolyn C	KA5ENU	Oklahoma City	OK	-	-
12/12/94	27112	De Pasquale, Michael C	VE3FQL	Thorold, Canada	-	-	-
12/12/94	27113	Johnson, Ray C H	K5RJ	Vienna	VA	Ethel Smith	K4LMB
12/12/94	27114	O'Donnell, William	W2XJ	Nunda	NY	-	-
12/14/94	27115	Bennett, Michael David	WQ4B	Chickamauga	GA	-	-
12/16/94	27116	Cameron, John A	K8KJF	Adrian	MI	-	-
12/16/94	27117	Korzenik, Armand A	KX1R	Hartford	CT	Milt Chaffee	W1EFW
12/16/94	27118	Hoice, John P	K5ORD	Albuquerque	NM	-	-
12/16/94	27119	Wetzel, Charles O	W3MIU	Macungie	PA	John R. Henry	W4PFQ
12/19/94	27120	Eaton, Glen E	W0YVR	Salina	KS	James E Mc Kim	W0CY
12/19/94	27121	Eaton, Pauline L	K0HIN	Salina	KS	James E Mc Kim	W0CY
12/20/94	27122	Kimble, Donald L	AE3Z	Millerton	PA	Wm N Plimpton	W2IXH
12/20/94	27123	Stewart, Richard	KB4QH	Reston	VA	Lewis Bradley	W4SWP
12/21/94	27124	Koerner, Margaret S	K0IQ	Boulder	CO	J R Snyder	W0UR
12/21/94	27125	Poteete, Andrew C	W4SQE	Madison	TN	O D Keaton	WA4GLS
12/21/94	27127	Glaeser, John F	WB9ESM	Manitowoc	WI	George Cox	N9BCX
12/21/94	27128	Henderson, Glenn H	WA7PBG	Tucson	AZ	Jack Pletcher	W6JIR
12/21/94	27129	Zimmerman, Jim	KG6VI	Lancaster	CA	John T Edel	K8LBZ
12/22/94	27130	Suttenberg, Stewart	W2VVZ	Syosset	NY	Leo I Meyerson	W0GFQ
12/27/94	27131	Propst, George E	W6UZV	Salinas	CA	Gerald Griffin	W8MAP
12/27/94	27132	Schwartz, Charles R	WA3TXR	Lowell	MA	-	-
12/27/94	27133	Thorner, J Lincoln	KS2H	Brooklyn	NY	William L Morris	WA5MUF
12/28/94	27134	Simon, Todd G	KI6JE	Concord	CA	George M Barnes	W8RH
12/28/94	27135	Morton, George	KB2QLK	East Marion	NY	-	-
01/03/95	27136	Baker, Lewie E	K5LFF	Las Vegas	NM	-	-
01/03/95	27137	Henricksen, Vernon A	WL7JU	Anchorage	AK	Larry Plessinger	AL7LW
01/03/95	27138	Penta, Tony	WA1MWN	Lynnfield	MA	Charles E Walbridge	K1IGD
01/03/95	27139	Trussell, Gerald C	W7MBG	Laveen	AZ	John E Gray	K7GFZ
01/03/95	27140	Velez-borrero, Gilbert	W3YYO	Philadelphia	PA	-	-
01/04/95	27141	Bounds, Robert S	N0NFI	Model	CO	Lew Mc Coy	W1ICP
01/04/95	27142	Farrington, Jasper A Jr	K1HAQ	Pittsfield	ME	Philip M Young	W1JTH
01/04/95	27143	Jimenez, Roberto	KP4CLB	San Juan	PR	Victor Madera	KP4PQ
01/04/95	27144	Mac Leod, James B	W4NHV	Lumberton	NC	Suzanne M Dedrick	W4PET
01/04/95	27145	Mulder, Ramon C	KB8TOF	Spring Lake	MI	Wm T Mac Kay	N8FOX
01/04/95	27146	Raffesnerperger, John W	WA9RTT	Brown Deer	WI	Jerry C Thompson	WA9SFH
01/04/95	27147	Marchetto, Albert V	W2NKJ	Mountainside	NJ	Hank Schultz	W13U
01/05/95	27148	March, Willard B	W5LYQ	Albuquerque	NM	Irving Mc Lane	N5KVX
01/05/95	27149	Blair, Milo	WA7PMW	Tigard	OR	James D Bradley Jr	N7JB
01/05/95	27150	Chamblin, Glenn A	K3TLC	Katy	TX	Jim Walsh	W7LVN
01/06/95	27151	Boone, Robert	WB4FNH	Bradenton	FL	-	-
01/06/95	27152	Bailey-gates, Paul C	KA6GEM	Piedmont	CA	-	-
01/09/95	27153	Burnley, John C	NU0V	Urbandale	IA	Don L Schmidt	W0ANZ
01/09/95	27154	France, James L	WA8HHO	Massillon	OH	John Edel	K8LBZ
01/09/95	27155	Glischinski, Robert J	W0VSF	Mendota Heights	MN	J Stodolka	W TIV
01/09/95	27156	Haight, Charles A	N6NMM	Stockton	CA	Lew Mc Coy	W1ICP
01/09/95	27157	Jones, Gregory W Sr	WA3FSC	La Plata	MD	Richard A Stalls	K4KYO
01/09/95	27158	Pasternak, William M	WA6ITF	Saugus	CA	John Troster	W6ISQ
01/09/95	27159	Ross, Trefry A	W6CSZ	Tucson	AZ	-	-
01/10/95	27160	Bealmear, Robert L	W0CAB	Raytown	MO	Lee Bergren	W0AR
01/10/95	27161	Edwards, Carl E	WB0HWY	Columbus	NE	Elden C Miller	W0KVM
01/10/95	27162	Pratt, Robert E	AA9NM	Neenah	WI	-	-

New Members

Date	Mem NR	Name	Call	City	St.	Sponsor	Sponsor's Call
01/10/95	27163	Thompson, R Dave	W6PLW	Sanger	CA	-	-
01/11/95	27164	Hoofer, Fred	W0BMT	Neligh	NE	-	-
01/12/95	27165	Donaldson, Eva M	WB0CON	Lakewood	CO	-	-
01/12/95	27166	Schoenfelder, A W	K4FKJ	N Augusta	SC	Donald R Anderson	K4PSW
01/13/95	27167	Edel, John Edward	WN8HHF	Findlay	OH	John T Edel	K8LBZ
01/13/95	27168	Leach, Douglas Edmond	VE3DWK	Ottawa, Canada	ON	Croft B Taylor	VE3CT
01/13/95	27169	Perge, Joseph M	WB8HWF	Newark	OH	-	-
01/13/95	27170	Swingle, Joseph R	W9DGW	Dayton	OH	George M Barnes	W8RH
01/16/95	27171	Berke, B Bill	KD6UK	Quail Valley	CA	-	-
01/16/95	27172	Wines, G Roger	KB5VHN	Austin	TX	Louis Pecenka	N5ORG
01/17/95	27173	Babcoke, Stephen	WB0UWE	Masonville	CO	J D Peters	K1ER
01/17/95	27174	Buck, Ernest R	WB5CDW	Tulsa	OK	-	-
01/17/95	27175	Burleson, Bob	KG7QJ	Chandler	AZ	John E Gray	K7GFZ
01/17/95	27176	Lapp, Herb	W2GQ	Mechanicsburg	PA	Dick Kerlin	K3AM
01/17/95	27177	Parkinson, Richard J R	WB4NTI	Orlando	FL	-	-
01/17/95	27178	Pedersen, Rollin	W1RVW	Springfield	MA	Richard B Stevens	W1QWJ
01/17/95	27179	Rose, David L	KW1V	Higganum	CT	Milt Chaffee	W1EFW
01/17/95	27180	Szymanski, William V	W9CWO	Chesterton	IN	-	-
01/20/95	27181	Collins, George A	VE3FJO	Ottawa	ON	Keith Bedal	VE3GFI
01/20/95	27182	Newell, James H	AA7EN	Reno	NV	Robert J Davis	KG7IY
01/20/95	27183	Smith, Russell S	K3APM	Perry Hall	MD	Camille S Marie	W3EPR
01/20/95	27184	Mills, Kenneth L	K8AJD	Kalamazoo	MI	-	-
01/20/95	27185	Shapow, George	NY2O	Rochester	NY	William L Morris	WA5MUF
01/23/95	27186	Anderson, Robert A	AA7TR	Tremonton	UT	John J Anderson	AB6ED
01/23/95	27187	Barry, Stephen J	AA3JI	Pittsburgh	PA	Brian Roberts	K9VKY
01/23/95	27188	Noll, Frederick N	WB6MQD	San Diego	CA	-	-
01/23/95	27189	Thompson, John A	KA5FJA	Flower Mound	TX	William D Davis	W5BGE
01/23/95	27190	Kurrelmeyer, Herman R	W1MSK	Spring Hill	FL	Eunice Gordon	W1UKR
01/23/95	27191	Martell, Mariano R	KP4BSQ	San Juan	PR	Victor Madera	KP4PQ
01/23/95	27192	Rosie, Robert M	WA6GXV	West Covina	CA	-	-
01/24/95	27193	Busher, Richard R	K1KKK	Dayville	CT	Art Lake	W1YOL
01/24/95	27194	Chapman, Charles L	W1WTG	Virginia Beach	VA	Elias Etheridge Jr	K4IX
01/24/95	27195	Horsky, Joseph	VE3HMD	Ottawa Canada	-	-	-
01/25/95	27196	Carrigan, Charles W Jr	W2RK	Branchville	NJ	-	-
01/25/95	27197	Erickson, Rudy	W7JJP	Eatonville	WA	-	-
01/25/95	27198	Perry, Charles K	WB4OZX	Kingsport	TN	W A Owen	W4VS
01/26/95	27199	Edsall, Robert D	WM5C	Burke	VA	Jim Wilcox	K4JAP
01/26/95	27200	France, Timothy J	WB8HHP	Canton	OH	John Edel	K8LBZ
01/26/95	27201	Hammond, Noel B	KK6AL	Monterey	CA	Philip L Kellen	K6CJ
01/26/95	27202	Heywood, Hal R	K6MUE	San Bernardino	CA	Bob Mc Dow	W4KOG
01/26/95	27203	Menter, Frank E	W3ZCJ	Silver Spring	MD	-	-
01/27/95	27204	Colantuono, Vito V	WA2PJF	Bay Shore, Li	NY	A J Evangelista	K6HAE
01/27/95	27205	Petersen, Martin D	N0DWS	Dunnell	MN	Arthur M Ellis	KB0BET
01/27/95	27206	Smith, Clifford E	K7TER	Eugene	OR	-	-
01/30/95	27207	Schlager, Walt	KE6BPN	Bangor	CA	-	-
01/30/95	27208	Waters, Robert H	W2KUN	Leesburg	FL	-	-
01/30/95	27209	Ham, William H	WA0ACI	Eden Prairie	MN	-	-
01/30/95	27210	Scherman, Roy R	W9FHS	Jonesborough	IN	W A Owen	W4VS
01/30/95	27211	Smith, Emmett	W3BNO	Baltimore	MD	Wade H Turner Jr	W3ERZ
01/30/95	27212	Wicker, Ronald J	AA5NI	Seabrook	TX	John S Turner	WA5LOD
01/31/95	27213	Lambrinos, H Philip	WA2IMX	Liverpool	NY	Frederic V Adsit	NY2V
02/01/95	27214	Titlow, George A	KO5G	Dalton	GA	-	-
02/02/95	27215	Felbert, Guenter V	DK4TA	Lungenberg, Ger	-	-	-
02/02/95	27216	Chilcote, Donald G	NU6K	Sun City	CA	Arlo K Myers	WA6UDR
02/02/95	27217	Keyworth, Albert O	K1TKI	Mansfield	MA	Harry Ketter	W1DGD
02/03/95	27218	Cheek, Mark Phillip	AB4XB	Thomson	GA	Grady Wyatt	WB4OCB
02/03/95	27219	Clusen, Gerald W	N9AYN	New London	WI	Mark Michel	W9OP
02/06/95	27220	Camino, Felipe	WP4CKC	Mayaguez	PR	Victor Madera	KP4PQ
02/06/95	27221	Duncan, Larry M	K4WLS	Belmont	NC	-	-
02/06/95	27222	Evans, Ralph R	W6ENE	Santa Cruz	CA	Elliott M Sperling	KB3LY
02/06/95	27223	Hill, Phillip E	K6JHK	Salinas	CA	Jerry Griffin	W8MEP
02/06/95	27224	Miller, Jay D Iii	WA5WHN	Albuquerque	NM	William L Morris	WA5MUF
02/06/95	27225	Segalla, Frank A	W2FFH	Seaside Park	NJ	Robert Buus	W2OD
02/08/95	27226	Hasler, Ralph M	N9WBL	Oconomowoc	WI	Delbert C Clark	KA9ZMK
02/09/95	27227	Coulter, Charles W	K9MZN	Port Charlotte	FL	-	-
02/09/95	27228	Steppy, Joseph M	WA3EYQ	Millersburg	PA	Glenn R Kurzenknabe	K3SWZ
02/09/95	27229	Wagoner, Jack C	WB8FSV	Hilliard	OH	-	-

New Members

Date	Mem NR	Name	Call	City	St.	Sponsor	Sponsor's Call
02/10/95	27230	Farrell, Walter	AI2K	Naples	FL	-	-
02/10/95	27231	Kelemen, Robert J	KN1Z	Andover	VT	Richard B Stevens	W1QWJ
02/10/95	27232	Newkirk, Rodney H	W9BRD	Chicago	IL	-	-
02/10/95	27233	O'Hara, Janice	WA2OPY	Kearny	NJ	Carl A Felt Jr	N2XJ
02/10/95	27234	Ritchie, Warren P	N1EFK	Newbury	NH	Ted Everett	W1ALE
02/10/95	27235	Williams, Lee T	WA6IME	Pinole	CA	-	-
02/10/95	27236	Yates, Frank V C	K2DZS	Seminole	FL	-	-
02/10/95	27237	Reese, Warren Tracy	WB6TMY	Santa Rosa	CA	L David Shallenberger	K6VHP
02/10/95	27238	Leyson, Herbert E	AA7XP	Springfield	OR	-	-
02/13/95	27239	Harper, R W	WB0MWB	Blair	NE	Richard E Newsome	W0HXL
02/13/95	27240	Laitinen, Laurence H	WA6JYJ	Eugene	OR	-	-
02/13/95	27241	Musa, William E	AB5YG	Ocean Springs	MS	-	-
02/13/95	27242	Granados, Juan A	WD4LCD	Miami	FL	Blanche Randles	W4GXZ
02/13/95	27243	Montbriand, Robert M	W0OB	Ft Worth	TX	Blanche Randles	W4GXZ
02/14/95	27244	Bigles, Carlos Jr	WP4ATR	Miami	FL	Ed Yoder	W3YMB
02/14/95	27245	Felstein, Bruce M	VE3BF	Tamarac	FL	Croft Taylor	VE3CT
02/14/95	27246	Kaplan, Saul	KE4SPZ	West Palm Beach	FL	Ed Yoder	W3YMB
02/14/95	27247	May, Jack J	W4AZO	Mikami	FL	Blanche Randles	W4GXZ
02/14/95	27248	Davis, Clifford L	AA3IM	New Castle	PA	George T Daughters	AB6YL
02/14/95	27249	Deal, Jerry W	K5FSS	Sumter	SC	-	-
02/14/95	27250	Helle, Clarence R	WB8EHJ	Paulding	OH	Robert Tracy	K8RZN
02/14/95	27251	Jobes, George E	WA2NAK	Mt Holly	NJ	John D Imhof	N2VW
02/14/95	27252	Masters, Beryl	WB0EJJ	Kansas City	MO	Larry Reeves	WA0GKZ
02/14/95	27253	Mc Connell, Roger A	W6VE	Mariposa	CA	Bob Tauxe	W6JTA
02/14/95	27254	Moore, P G Gale	VE3OUN	Cannington, Canada	CA	Fred Hammond	VE3HC
02/14/95	27255	Steele, Dennis	K6KRV	Burlingame	CA	-	-
02/14/95	27256	Wade, Joseph M	AC6JP	Yorba Linda	CA	-	-
02/14/95	27257	Webb, Byron H	W9WFX	Wonder Lake	IL	Dale G Svetanoff	WA9ENA
02/14/95	27258	Borland, Ronald P	W4YBF	Reidsville	NC	-	-
02/14/95	27259	Jones, Dayton L	N56S	La Canada	CA	-	-
02/14/95	27260	Kirkman, Jonathan L	W4WDH	Oxford	GA	George T Daughters	AB6YL
02/15/95	27261	Boyer, Walt	K7CTR	Liberty Lake	WA	A S Cutting	W7ENQ
02/15/95	27262	Nadwornick, William E	K7CTS	Greenacres	WA	A S Cutting	W7ENQ
02/16/95	27263	Norgaard, Andreas J	W7UPS	Winnemucca	NV	Louis T Barnes	WA6TFR
02/16/95	27264	Todaro, Dennis V	NM6G	Laguna Hills	CA	-	-
02/16/95	27265	Walden, Charles C	N1SVG	Madison	CT	Walt Yatsook	N1CJB
02/17/95	27266	Bisignano, Richard	WA2DGU	Chester	NJ	-	-
02/17/95	27267	Collisson, Donald O	KK6LS	Azusa	CA	-	-
02/17/95	27268	Sasek, Karen B	WA0NNC	Tucson	AZ	Bernie Sasek	W0Y0Y
02/20/95	27269	Grace, William R	N2ZAQ	Teaneck	NJ	-	-
02/20/95	27270	Mc Gahuey, Robert S	WA7OXN	Duvall	WA	-	-
02/21/95	27271	Gray, Darrell T	AA5QR	Pearland	TX	John S Turner	WA5LOO
02/21/95	27272	Gruszka, Michael P	N2NW	Owego	NY	Sam Horwitz	W3HOR
02/21/95	27273	Hancock, Clinton D	KM6UJ	San Jose	CA	Bill Stevens	W6ZM
02/21/95	27274	Miller, Gordon E	WA0ZOG	Kearney	MO	Bill Mc Grannahan	K0ORB
02/21/95	27275	Nieves, Gregorio	KP4EW	San Juan	PR	Victor Madera	KP4PQ
02/21/95	27276	Turner, Jerome R	K9CCZ	Chesapeake	VA	-	-
02/21/95	27277	Henry, Raymond W	W3ZVY	Pottstown	PA	Howard Trout	W3IGW
02/22/95	27278	King, William Byrd III	K7IMN	Federal Way	WA	-	-
02/23/95	27279	Berokoff, William W	KI7O	Beavercreek	OR	-	-
02/23/95	27280	Oriel, John T	AC4LV	Geneva	FL	Cloyd Taylor	W4EWZ
02/23/95	27281	Thiessen, Thomas L	K0PQR	Omaha	NE	Richard E Newsome	W0HXL
02/24/95	27282	Carl, David L	KG0AC	Lawton	OK	-	-
02/24/95	27283	Johnson, Robert L	W9WQT	Carthage	NC	Wilbur Fulton	W2SE
02/24/95	27284	Waltner, John R	N0SD	Freeman	SD	-	-
02/27/95	27285	Bogue, Scott L	KE7LE	Tacoma	WA	-	-
02/27/95	27286	Goette, Rowland T	W0UVV	Chesterfield	MO	-	-
02/27/95	27287	Newman, Donald E	WA7HVA	Carson City	NV	Larry E Oakley	W7AAA
02/27/95	27288	Reynolds, Rick L	NJ5W	El Paso	TX	-	-
02/27/95	27289	Mc Combs, Lloyd D	K0LM	Wichita	KS	C Edward Straub	W HWP
02/27/95	27290	Mc Gillivray, James F	N1OUP	Windsor	CT	George H Hughes	W1ALL
02/27/95	27291	Mertens, Larry A	WA6EY	Sacramento	CA	-	-
02/27/95	27292	Raitt, Richard M	KC5EPL	Plano	TX	-	-
02/27/95	27293	Smith, Harvey M Jr	KJ5WX	Cherokee Village	AR	-	-
02/27/95	27294	St John, Paul	N6DN	San Bernardino	CA	Don Doughty	W6EEN

Silent Keys

We regret to inform you of the passing of these our fellow members. Note: "*" indicates life member and "^" indicates the exact date of the member's passing is unknown.

Name	Call	Mem NR	L	SK	U	Name	Call	Mem NR	L	SK	U
Caswell, Frank H	W1ALT	03585		1994	^	Ratliff, Cliff	W5DHE	05885	*	1994	
Willett, Charles	W1ESP	15146	*	1995		Elliott, Edgar E	K5GFU	08411		1994	
Doane, Paul M Jr	W1HAD	26083		1994		Edmonds, Leslie A	W5GOO	05907	*	1995	
Varney, Albert R	NT1N	20550		1994	^	Rabito, A Paul	W5HR	02903		1994	^
Baker, Chester A	W1OTQ	08932		1994		Kuban, Joe	W5LU	24453		1994	
Rockwell, Charles S	W2AXL	10673	*	1995	^	Eggleston, Roy K	W5QEM	11136		1994	
Cobaugh, Robert	W2AY	01439		1995		Worden, Marion R	W5SM	06840		1995	
Gleason, Lionel E	W2BKI	09245	*	1994		Mahoney, William P	KB5WN	13733		1994	
Klaus, George H	W2CJN	08214		1994		Cuevas, Frank J Jr	W6AOA	08518		1994	
Berube, Emil A	W2DGV	02944		1995		Estep, Russel A	W6AUC	02373	*	1994	
Moran, Pat	W2EM	11063		1995		Ropp, V Clyde	W6BYF	10168		1994	^
Luscher, James J Sr	AA2EN	26771	*	1994		Walton, Robert C	W6CYL	02720		1994	^
Dubbs, Bernard	WA2FSR	23280		1995		Durmisevich, Hamid	W6DQZ	01062		1994	
Wotton, James A	W2JUJ	22365		1995	^	Cabanillas, Ralph Jr	W6IL	01049	*	1995	
Daley, John F	WB2LHX	15933		1995		Harter, Glenn A	W6SAU	22855	*	1994	
Arkle, Charles L	WA2LMW	18175		1994		Johnson, Ernest J	W6ZRR	03021	*	1994	
Giernan, George H	W2QLP	06623		1995		Peckham, George F	W7ABD	02084	*	1994	
Griswold, Ray F	W2SD	07722		1995		Geer, Don M	K7CNE	01883		1995	
Martin, James H Jr	W2VPL	14276		1994		Nye, William M	W7DZ	12274		1994	^
Meyers, Irwin T	WA2YQU	26146		1994		Aschoff, Otto E	W7FFJ	16013		1994	^
Houston, Samuel H	W3DKE	07335		1994	^	Cowan, Jesse H	K7IDF	15890		1994	
Frey, John	W3ESU	12304		1995		Schumacher, Illeana M	W7RHM	16296	*	1994	
High, Archie G	W3FJI	05253		1995		Baker, Jack C	KL7SC	02667		1994	^
Angstadt, Harold F	W3HOT	11654		1994		Diebold, John	W7SCU	11845		1994	
Eberly, Harry S	K3OEN	22069		1994	^	Muncy, Donald R	K7SLA	21005		1994	^
Staebler, Lloyd A	KB3UK	15461		1994		Skaife, Jerry	W7ULC	12705	*	1994	^
Edelblute, Malcolm C	W3YIY	21441		1994	^	Kadis, Libbie	WA8BKD	24626		1995	
Mc Nulty, T F	W3ZG	06682		1995		Consterdine, Leslie C	W8CUP	08869		1994	^
James, Richard E Jr	W4DQU	15545		1994	^	Besse, William	K8GOP	21701		1995	
Eachus, Edward D	K4DXB	20027		1994		Kershner, Robert W	W8SDE	08327		1994	^
Fielder, Thomas H	W4EPL	17093		1994	^	Hager, James A	K8OBX	19138		1994	
Grenfell, William S	W4GF	00962	*	1995		Sieler, Ed	W8UXU	16503	*	1994	
Newman, Charles S	K4HJ	06112		1994	^	Tomesek, Stanley P	W8XJ	06519	*	1994	^
Hennon, Meg	K4HSC	14604		1994		Moats, Harold E	N8ZA	06729		1995	^
Weeks, William D	WA4ISM	25839		1994		Shebal, Robert J	W8ZKL	09215		1994	^
Newcomer, Martin M	WD4IZD	13624		1994	^	Krones, Al C	K9AA	06986	*	1994	
Keith, Leonard	K4JBN	15248		1994	^	Lynch, Joseph E	K9IFE	14725		1995	
O'Connor, John R	WB4LPX	25247		1994		Jensen, Paul O	W9PTI	07887		1995	^
Simmons, Sam H	W4NEI	06145		1994	^	Pickett, Bruce	K9VSY	18873		1995	^
Heichlinger, Charles	W4NPS	17533		1994	^	Hagenbucher, Russ	K0HTO	18282		1994	
Snipes, Thomas W	KM4OA	17001		1994		Smith, James C	WA0OFM	26747		1994	
Mazzagatti, Roy D	N4OG	21306	*	1994		Leeder, John F	W0UFD	08747		1994	
Downer, Haynie L	W4PNZ	24248		1994		Lotan, Shimshon S	4X4GF	18782	*	1994	
Shelton, Malcolm H	W4PSS	16285	*	1994	^	Craemer, Fritz	DL3MO	09251	*	1994	
Sandelin, Robert W	W4RR	04240	*	1994		Ahlers, Helmut	DL3QR	14881	*	1994	
Olberg, Karl L	W4ST	04921		1994	^	Louis, Heinz	DK4KW	26875	*	1994	
Schultz, Erik Carl	WA4TCW	14036		1995		Skowby, Edmund C	VE3PE	03047		1994	^
Davidson, Wilson	K4TM	06265	*	1994		Austin, William Charles	VE6WP	25349		1994	
Hudgins, W D	W4YY	01320	*	1994		Moorhouse, Wilf	VE7US	02079	*	1994	
Talley, Alvin C	KD4ZX	16100		1995							
Gill, H Frank	N5ACL	15186		1995	^						
Landrum, H M	W5CUI	13484		1994	^						

APPLICATION TO RENEW OR MODIFY AN AMATEUR CLUB, RACES OR MILITARY RECREATION STATION LICENSE

BE SURE TO READ INSTRUCTIONS ON REVERSE SIDE. PLEASE PRINT OR TYPE.



ATTACH PRESENT CLUB, RACES OR MILITARY RECREATION LICENSE OR PHOTOCOPY THEREOF TO THE BACK OF APPLICATION. IF THE LICENSE HAS BEEN LOST OR DESTROYED, ATTACH EXPLANATION.

1. CLUB, RACES OR MILITARY RECREATION STATION CALL SIGN:		EXPIRATION DATE:
2. NAME OF CLUB STATION TRUSTEE OR LICENSE CUSTODIAN: (First, MI, Last, Suffix)		3. DATE OF BIRTH: (Month, Day, Year)
4. CURRENT MAILING ADDRESS: (Number and Street, City, State, ZIP Code)		
5. NAME OF CLUB, RACES ORGANIZATION OR MILITARY RECREATION ENTITY:		
6. TRUSTEE'S PRIMARY STATION CALL SIGN:		TRUSTEE'S OPERATOR CLASS:

CERTIFICATION

RESPONSIBLE OFFICIAL: I certify that the above named person is the station trustee or license custodian authorized to apply for and hold an amateur radio station license for this organization, society or entity.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (US CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (US CODE, TITLE 47, SECTION 312(A)(1)), AND/OR FORFEITURE (US CODE, TITLE 47, SECTION 503).

7. SIGNATURE: (Must not agree with Item 2)	(Title or authority to approve)	DATE SIGNED:
--	---------------------------------	--------------

APPLICANT: I certify that all statements herein and attachments herewith are true, complete and correct to the best of my knowledge and belief and are made in good faith; that I am not the representative of a foreign government; that I waive the claim to the use of any particular frequency regardless of prior use by license or otherwise; that the station to be licensed will be inaccessible to unauthorized persons.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (US CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (US CODE, TITLE 47, SECTION 312(A)(1)), AND/OR FORFEITURE (US CODE, TITLE 47, SECTION 503).

8. APPLICANT'S SIGNATURE: (Must agree with Item 2)	DATE SIGNED:
--	--------------

INSTRUCTIONS

A. GENERAL

Use this form to apply for a renewed or modified club, RACES (Radio Amateur Civil Emergency Service) or military recreation station license. For an operator/primary station amateur license, use FCC 610. New club, RACES, or military recreation station licenses are no longer available. To obtain a duplicate copy of a lost, mutilated or destroyed license, submit a letter request giving your name, address, station call sign, license expiration date, and state how the original license was lost, mutilated, or destroyed.

Complete this form as follows:

1. Use typewriter or print clearly in ink.
2. Complete all applicable items carefully.
3. Attach present club, RACES or military recreation station license or photocopy thereof to this side of form.
4. Sign and date the application.
5. Mail application to Federal Communications Commission, 1270 Fairfield Road, Gettysburg, PA 17325-7245.

For additional information, you may call the FCC's Consumer Assistance Branch at (717) 337-1212.

B. ITEM 2 THIS ITEM IS TO BE COMPLETED BY ALL APPLICANTS

There are three types of applicants:

1. The applicant for a club station license must be the licensed amateur operator of higher than a Novice class who has been designated by the organization or society to be the station trustee.
2. The applicant for a RACES station license must be the civil defense official responsible for coordination of all civil defense activities in the area concerned and who has been designated by the official responsible for the governmental entity agency served by that civil defense organization to be the RACES station license custodian. The applicant need not be an amateur radio operator.
3. The applicant for a military recreation station license must be the person in charge of a station at a land location provided for the recreational use of amateur radio operators under military auspices of the Armed Forces of the United States and who has been designated by the official in charge of the U.S. Government premises where the military recreation station is located to be the military recreation station license custodian. The applicant need not be an amateur radio operator.

C. ITEM 5

If the organizational name is different than what appears on the license, provide an explanation on a separate sheet of paper and submit with FCC 610B.

D. ITEM 6

The trustee of a club station should show his/her call sign and operator class.

E. ANTENNA HEIGHT

If the height of your antenna will exceed 60.96 meters (200 feet) or 1/100 of the minimum distance between the antenna site and any aircraft landing area (refer to FCC Rules, Section 97.15) complete an FCC 854. This form may be obtained by writing to your nearest FCC Field Office. Follow instructions on the form for completion and submission.

F. RESPONSIBLE OFFICIAL CERTIFICATION FOR ITEM 7

The signature for the club official must be that of an officer of the club. It must not be that of the station trustee. The signature for the RACES official must be that of the official responsible for the governmental entity served by the civil defense organization. It must not be the same as the applicant's. The signature for the military recreation station must be that of the official in charge of the United States Government premises where the military recreation station is located. It must not be the same as the applicant's.

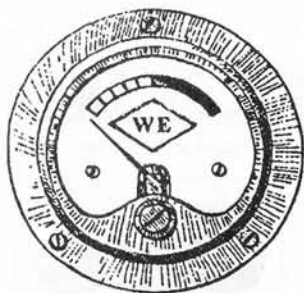
G. APPLICANT'S CERTIFICATION FOR ITEM 8

The signature for the club station must be that of the club station trustee. It must agree with item 2. The signature for the RACES station applicant must be that of the civil defense official responsible for the coordination of all civil defense activities in the area concerned. It must agree with item 2. The signature for the military recreation station applicant must be that of the person in charge of a station provided for the recreational use of amateur radio operators, under the military auspices of the Armed Forces of the United States. It must agree with item 2.

NOTICE TO INDIVIDUALS REQUIRED BY PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

The solicitation of personal information in this form is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether the station license grant is in the public interest. In reaching that decision, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information requested on this form, as well as the form itself, will be available for public inspection. If information requested on the form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to Commission rules. The foregoing is required by the Privacy Act of 1974, 5 U.S.C., Section 552a(e)(3).

Public reporting burden for this collection of information is estimated to average five minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to Federal Communications Commission, Records Management Division, AMD-PIRS, Washington, DC 20554, and to the Office of Management and Budget, Office of Information and Regulatory Affairs, Paperwork Reduction Project (3060-0079), Washington, DC 20503.



THE WIRELESS EXCHANGE

Guidelines for Exchange Use are:

- (1) List your antique or vintage needs and wants clearly and simply,
- (2) List what you will accept in trade,
- (3) List your asking price if no trade is possible,
- (4) If you advertise, hold the merchandise long enough for members to receive their *JOURNAL* and read this column,
- (5) Answer all inquiries.

There is no cost to QCWA members.

Hosted by: J. Douglas Hensley, WJ5J, 5678 College Drive, Baton Rouge, Louisiana 70806

For Sale or Trade

Wanted: Plug in unit Type D (dog) "Envelope Monitor" for Telequipment S43/D43 Oscilloscope (1966 British Tektronics), or info. Bob McKinstry, VE7BCX, 209 Cook Street No. 4, Victoria, British Columbia, V8V 3X2, Canada.

For Sale: Kenwood Microphone MC-60, no time since factory check, like new. List price \$149.95, priced- \$99.95. Free: Panasonic printer, in need of repair, for transportation cost only. Robert Dobbins, WD2AHT, 733 Plantation Estates Drive A412, Matthews, North Carolina 28105.

Wanted: National FBXA, SW3 universal, National power supply, Hamnerlund PRO310, Collins 75S3C, McMurdo Silver amateur equipment, mobile 6M sideband rig (IC-560, FT-680, FT-690, etc.), TEN-TEC Argosy. John Hurst, KU6X, 2512 Euclid Crescent E., Upland, California 91784, (909) 981-6759 (anytime).

For Sale: High power military surplus 6 meter unit: PP-638/U (1kv/300ma) power supply, AM-495/GR, 36-50 mhz, amplifier (uses 4x150 or 4x250 tubes), with schematic. \$400 OBO, buyer pays shipping. Call or write for more information. Thomas Althoff, K8OSH, 6619 Erie Street, Sylvania, Ohio 43560, (419) 882-7513.

Wanted: Suitable low to medium power HF military xmtr for use on U.S.S. Requin, early Collins radio equipment such as Collins 4A xmtr or other early items, Collins 75A2, 75A3, spkr and mechanical filters, McElroy or Speed-X bug, Viking Navigator Aeriola Junior crystal set, KN9VKY QSL. Brian Roberts, K9VKY, 3068 Evergreen Road, Pittsburgh, Pennsylvania 15237. (412) 931-4646.

For Sale: QST magazines, 1923 through present, most in binders. Some early years in only fair condition. Send best offer with S.A.S.E. Will consider trade for HF transceiver. Cushcraft Boomer VHF/UHF yagi antennas for 902 mhz and 1296 mhz. Yagi package for \$200 cash. All items pick up only. **Wanted:** Ten-Tec model 238 antenna tuner, reversible "L" section type. Al La Placa, W2WW, P.O. Box 233, Centereach, New York 11720-0233, (516) 585-4694.

Wanted: Hallicrafters HA-5 VFO and SX-140 receiver. Anthony Musero, K3UKW, 1609 S. Iseninger Street, Philadelphia, Pennsylvania 18148-1010.

For Sale: Heathkit Model HD-1250 solid state dip meter, \$50. Frequency counter model FC-250, 1-250 Mhz, \$50. Wayne Cooper, AG4R, 1113 Beverly Drive, Alexandria, Virginia 22302-2423, (703) 671-5629.

Wanted To Buy: One (1) each DC/DC adapter module for the Kenwood TS-520 SE. Must have manuals and/or instructions plus any/all cables. List what you have with first reply. Charles Carey, WA0DXY, 809 Wood Street, Norfolk, Nebraska 68701-5742.

For Sale: Collins KWM-2 xcvr with Waters rejection tuning, plug-in relays, 516F-2 power supply, Shure mike, cables, manuals. Excellent condition, \$795. Kenwood TH25AT 2M HT, many extras, mint, hardly used, \$225. 6LQ6 tubes, \$15 ea. Bob Needleman, KD4ZN, 395 Meadowbrook Road, North Wales, Pennsylvania 19454, (215) 661-9283 eves.

Wanted: Hallicrafters SX-88, SX-73, SX-9, National NC-400, SW-4, Collins speakers, 312B5, accessories, Johnson

500, KW matchbox. Steve Barnes, K6PFW, 848 N. Silverwood, Upland, California 91786, (909) 985-1062.

For Sale: TELREX 6 element Tri-Bander, good condition, \$300. Has 4 active elements each band, weighs about 100 lbs. Great beam. Al Sziriski, AI4U, 6251 Fox Hunt Trace, Orlando, Florida 32808, (407) 222-0007 days, (407) 298-3493 eves.

Wanted: Any amateur radio equipment (transceivers, antennas, tuners, test gear, details (sic), handbooks, etc.), old or new, used or firm (sic). Should your travels bring you near the Chuvash Republic, Russia, stop in and help me modernize my station. Can exchange P250M (Russian military WW2 solid state receiver). Vladislav Petukhov, UA4ZA, ul. Shevchenko 25-57, Cheboksary 428000, Chuvash Republic, RUSSIA. Mail address: G.P.O. Box 6, Cheboksary 428000, Chuvashyeng RUSSIA.

For Sale: Drenon Clipperton L, needs 125 mfd (@450V) power supply filter can, \$350; Drake C-Line, good condition, \$400; 40 meter add-on for A4, \$50; unused HD-73 rotator \$100. Dave Goggio, W4OGG, 5356 Virgil Road, Memphis, Tennessee 38134-8525, (901) 382-8195.

Wanted: One pair of replacement handles (right and left sides) for my Weller D440 soldering iron. Will consider used or defective gun for parts. George Brooks, W2GX, Cathair-On-Hudson, 486 River Road, Newburgh, New York 12550-1308.

For Sale: Heathkit HW-8 with power supply, mint condition, \$155 OBO, Hallicrafters SX-28 (Super SkyRider) receiver \$75, QST collection 1930's to present (best offer over \$500), 1942 Radio Handbook, hardback, \$30, 1935 and 1944 ARRL handbooks, paper, \$30 ea, 1947 in hardback, \$35, many parts. Send offers with S.A.S.E.; buyer takes care of shipping. J.H. VanArtsdalen, W3AXA, 18 Greenbriar Drive, Jacobus, Pennsylvania 17407.

Wanted: Collins 51J4 receiver, Johnson Desk Kilowatt Amplifier, Globe King 500 transmitter, Hallicrafters HT-32B transmitter, Hallicrafters SX-101 receiver, National speaker for the HRO-5TA1 (table mounted version). Ben Deovlet, W6FDU, 933 Robin Lane, Campbell, California 95008, (408) 374-0372.

For Sale: SWAN Twins 600R and 600T, excellent on air, with manuals, \$250 each plus UPS. Will throw in VOX and SWAN mike. FORD Model "T" spark coil, for real, \$25. Harvey-Wells TBS-50D with manual, unmodified collectors gem, \$75. Hallicrafters SX-99, working okay, \$55. All plus UPS. Andy Clark, W4IYT, 41 Lenape Drive, Miami Springs, Florida 33166, (305) 888-3874.

Wanted: Schematic for half-slot card manufactured for Technology Marketing, Inc., 4000 Kruse Way Place, Oswego, Oregon for the PC Weather and PC Weather Pro Weather Station. The company is no longer in business. Inputs for this card were pwr, temp A, temp B, rain gauge, wind speed, and wind direction. Data is needed to service this card. Roger Tavella, K1BHY, 444 Moose Hill Road, Monroe, Connecticut 06468.

Manuals, Schematics, Or Correspondence

Wanted: Artifacts, memorabilia, early keys, and/or any historical data, correspondence or information relating to the Vibroplex Company. Please contact: Mitch Mitchell,

WA4OSR, c/o The Vibroplex Company, 11 Midtown Park, E., Mobile, Alabama 36606-4141, 1-800-840-8873, or FAX 1-334-476-0465.

Need: Schematic and service manual for model and type 516 Tektronix oscilloscope. Also need schematic for a Model A-15 Sparta Broadcasting board. Russell R. Williams, W9BXP, 10770 North Cedars Rd. Little Acres, Seymour, Indiana 47274-9162.

QST's Wanted: Looking for issues of QST prior to 1950 and old Communications related books for a library being assembled for a radio club. Would like donations, but will buy, trade, and pay for shipping. Have several issues of 1920's and 1930's issues of R9 and Radio for trade. John Vugteveen, W7KNT, P.O. Box 64, Stevensville, Montana 59870-0064, (406) 777-5122.

Buy, Sell, Trade: Misc. issues U.S. Amateur Callbooks, 1914 through 1980. SASE for list. Bob Arrowsmith, W4JNN, P.O. Box 166, Annandale, Virginia 22003, (703) 560-7161.

Wanted: Manual and schematic for NDI HC-1400, 2M fm xcvr, and/or copy of review in the November '79 issue of QST, pp 52-54. Bill Singer, WB2FKR, 4920 Lucerne Lakes Blvd, Lake Worth, Florida 33467-8817.

Wanted: QSLs and/or amateur correspondence from Franklin Seiberling, 8AHF, North Portage Path, Akron, Ohio for museum collection. If you can be of assistance, please contact Margaret A. Tremontine, Curator of Collections, Stan Hywet Hall and Gardens, 714 North Portage Path, Akron, Ohio 44303-1399.

Wanted: ARRL Handbooks from 1935-58, 66-76 for station library, perhaps QST package. Need original manual, or offer to copy same, on the Central Electronics 200V, Heath RX-1/HA-10/TX-1 series, alignment section (pp60ff) for SB-401. *Seeking in any condition:* Hallicrafters R46B speaker, HT-32B, HT-33A, SX-122, SX-117/HT-44/HT-45, Hallicrafters accessories, National NC-303, HRO-60, Heath SB-303, SB-610/620/630. Will exchange trade list if you prefer trading. Contact Doug via the Exchange.

Commercial Classified Advertisements

Engravings: Callsign/Name Badges by W0LQV. SASE for price sheet. Box 4133, Overland Park, KS 66204.

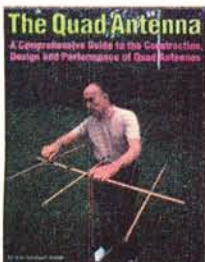
Announcements

If you have an operating position comprised of tube equipment and/or other vintage pieces, share a photo of it with the Exchange (send two copies so that we can archive at least one). Pictures preferred with chief op in view, but at least with call sign displayed. Those chosen for publication will receive a handsome certificate of appreciation. Operating awards are being planned to reward interests in vintage gear, to encourage its retention by amateurs, and to provide incentives for operating accomplishments. Correspondence is welcome and should be sent to Doug via the Exchange.

The Quad Antenna

Hams love antenna books and this book is no exception. Written by world renowned author Bob Haviland, W4MB, The Quad Antenna is the authoritative technical book on the design, construction, characteristics and applications of Quad Antennas. Discover how to easily build a quad antenna for your station that will help you fill your log-book with rare DX that you have only dreamed about before.

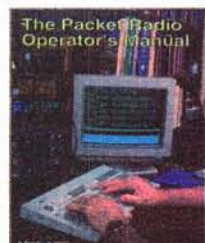
Order No. QUAD..... \$15.95



The Packet Radio Operator's Manual

This book is written by CQ columnist and Amateur Radio Packet authority Buck Rogers, K4ABT. An all new introduction and guide to packet operation, it is the perfect single source, whether you're an advanced user or just starting out. Learn about packet radio without all the technical jargon. Also included are detailed hookups for dozens of radio/packet controller/computer combinations, making this book the definitive resource for the active packet user.

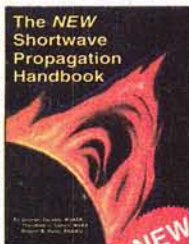
Order No. PROM..... \$15.95



The NEW Shortwave Propagation Handbook

CQ has been a leader for nearly 50 years in providing timely and invaluable information on HF propagation. Thousands of radio amateurs were helped by our first propagation handbook. Now, you can take advantage of the information and techniques presented in this completely updated and revised volume. It's certain to be one of ham radio's classics—and one that will immediately increase your enjoyment of the HF spectrum.

\$19.95



The Vertical Antenna Handbook

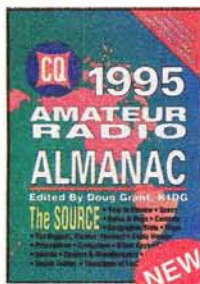
Take advantage of the 20 years of research and practical experience of naval communications engineer Capt. Paul H. Lee, USN(ret), N6PL. Learn the basic theory, design, and practice of the vertical antenna. Discover easy construction projects such as a four-band DX vertical or a broadband array for 80 meters. Ever wonder how to build a functional directive vertical system? Paul Lee can get you started today!

Order No. VAH..... \$9.95

1995 Amateur Radio Almanac 2nd Edition

If you're looking for information about ham radio, it's in the 1995 Amateur Radio Almanac. This Sourcebook is filled with over 500 pages of facts, figures, and information. Completely updated with scores of new topics, this is one resource you'll always refer to. If it's ham radio, it's in The Source!

Order No. BALM95.....\$19.95



Get Started with CQ's New Video Library!

Also Available in PAL format!

Getting Started in Contesting

Whether you're a newcomer to contesting or an experienced veteran, CQ's Getting Started in Contesting is for you! You'll get advice and operating tips from some of contesting's most successful competitors, including Ken Wolff, K1EA, Dick Newell, AK1A, and CQ's own contest columnist, John Dorr, K1AR. Order our contest video and watch your scores begin to climb!

Order No. VCON.....\$19.95



Getting Started in Amateur Satellites

Learn with this video how veteran operators set up their satellite stations. Find out how to locate and track ham satellites with ease. Watch operators access current satellites and contact far ranging countries around the world. This video is filled with easy to understand advice and tips that can't be found anywhere else.

Order No. VSAT..... \$19.95



Getting Started in Packet Radio

This video will help de-mystify the exciting but sometimes confusing world of packet radio. Learn how to get started using your computer on the radio. Included are step-by-step instructions on making packet contacts and using packet bulletin boards, networks and satellites.

Order No. VPAC.. \$19.95



Getting Started in DXing

Top DXers share their experience with equipment, antennas, operating skills, and QSLing. You'll see hams work rare DX around the world. If you're new to DXing, this video is for you! All this valuable information may well give you the competitive edge you need to master the exciting world of DXing.

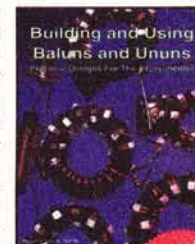
Order No. VDX..... \$19.95



Building and Using Baluns and Ununs

Without question, Jerry Sevick, W2FMI, is the world's authority on transmission line transformer theory. Building and Using Baluns and Ununs is the definitive source for his latest practical information and applications. This is one book that has successfully unraveled technological mysteries with designs that are simple and work!

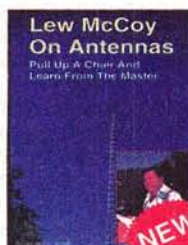
Order No. BALUN....\$19.95



Lew McCoy on Antennas

It's not every day you get to meet a living legend, but CQ brings you one of the greatest! CQ magazine author and renowned authority on antenna theory and design, Lew McCoy, W1ICP, has written a truly unique antenna book that's a must for every amateur. Pull up a chair and learn from the master today!

Order No. MCCOY....\$15.95



For Fastest Service,
Order Toll Free 1-800-853-9797
Or FAX 516-681-2926

**YES! I want to learn from the experts.
Rush me my book(s)/video(s) right away!**

Qty	Item #	Description	Price	Total Price
Shipping/Handling				
Total				

Please add \$4 shipping & handling. FREE shipping & handling for orders \$50 and over.

Please make your check or money order payable to: CQ Communications, Inc.

Name _____ Callsign _____

Address _____

City _____ State _____ Zip _____

MC/VISA/AMEX/Discover # _____ Expires _____

Form of payment: ☐ MC ☐ VISA ☐ AMEX ☐ Discover ☐ Check ☐ Money Order

Please mail your orders to:

CQ Communications, Inc., 76 North Broadway, Hicksville, New York 11801-9962

NEW
Dual Band HT

Dual Band Handheld **FT-51R**

Only one Dial/Volume knob required for easier use.

The First Dual Band HT with **WINDOWS!**



Three dual receive configurations VHF/VHF, UHF/UHF, or VHF/UHF with main band frequency on right or left side. Flexible programming allows transmit on main or sub band.

An 8 character alpha-numeric user help menu scrolls operation instructions in the bottom of the large, backlit display.

MH-29A2B
LCD Display Mic
with Remote
Functions.
(Optional)

The new FT-51R Dual Band HT is state-of-the-art, and easy to use!

So easy, you won't need an operating manual. Its exclusive, scrolling instruction menu located in the large, backlit display "window", guides you through total operation while simultaneously viewing the main display window.

You'll like some of the other new, exclusive features, too. Like Spectrascope™. This unique feature displays real time, continuous scanning of activity on adjacent frequencies in VFO mode or 8 of your favorite

"I can see two frequencies and alpha-numeric all at the same time."

"Scrolling instructions tell me what to do next!"



"I use the Spectrascope to find new contacts faster."

"Yaesu did it again!"

Digital battery voltage readout displays condition of battery in use. Scan skip function allows individual memory channel lock-out during scanning mode.

Spectrascope™ displays active adjacent frequencies in real time with relative signal strength.

FT-51R
2 1/4"W x 4 3/4"H x 1 1/8"D
(2 Watt version shown.)

Specifications

- Frequency Coverage
 - VHF RX: 110-180 MHz
 - TX: 144-148 MHz
 - UHF RX: 420-470 MHz
 - TX: 430-450 MHz
- Spectrascope™ Display
- Scrolling User Help Menu
- Alpha-Numeric 8 Character Display
- Up/Down Volume/Squelch Controls & Display
- Selectable Sub-Band TX Mute
- Automatic Tone Search (ATS)
- Digital Battery Voltage Display
- AM Aircraft Receive
- Scanning Light System (SLS)
- 120 Memory Channels (80 w/Alpha-Numeric)
- Large Backlit Keypad & Display
- Automatic Repeater Shift (ARS)
- Multiple Scanning Modes
- 3 Selectable Scan Stop Modes with Scan Skip
- Selectable 6-way Lock Functions
- Automatic Power Off (APO)
- TX/RX Battery Savers Built-in
- Handy Cloning Feature
- 5 Selectable Power Output Levels
- 5 Watt and 2 Watt versions
- Selectable RX Smart Mute™
- Cross-Band & One-Way Repeat Functions
- DTMF Paging/Coded Squelch Built-in

Accessories

Consult your local dealer.

YAESU
Performance without compromise.™

© 1994 Yaesu USA, 17210 Edwards Road, Cerritos, CA 90703 (310) 404-2700

Specifications subject to change without notice. Specifications guaranteed only within amateur bands. Some accessories and/or options are standard in certain areas. Check with your local Yaesu dealer for specific details.



FT-1000D / FT-1000 ... Please Call!

- 160-10m XCVR • 200 W Output • Auto Tuner
- True Dual RX • CW Keyer • Much More

\$100 COUPON FOR ADDED SAVINGS!



FT-900AT ... Please Call For Special!

- 160-10m XCVR • 100 W Output • Auto Tuner
- Compact Size • Optional Remote Mounting

PLUS FREE YSK-900 WITH FT-900!



FT-5200 2m/70cm Mobile XCVR ... Call!

FT-5100 2m/70cm Mobile XCVR ... Call!

\$30 COUPON FOR ADDED SAVINGS!



FT-11R Call For Special!

FT-11R High Power Call!

- Super Compact 2m FM HT
- 150 Memory Channels
- Alpha Numeric Display
- AM receive (110-138 MHz)
- Autodial Memory (10 Channels)
- CTCSS Tone Encode
- DTMF Paging & Squelch
- DTMF Memory (11 Channels)
- Direct Keypad Frequency Entry
- Extended RX (118-174 MHz)
- Supplied with FNB-31 NiCad Battery Pack, Wall Charger, Belt Clip, Rubber Duck Antenna, and Wrist Strap!

\$20 COUPON FOR ADDED SAVINGS!

YAESU DEALS

Texas Towers has Yaesu specials galore! In addition to our every day low prices, Yaesu is offering additional savings coupons for most of the radios shown on this page. So be sure to give us a call-Texas Towers really does sell for less!



NEW YAESU ROTATOR!

G-2800SDX IN STOCK!



Features: 34 sq. ft. capacity, 450° rotation, preset control, and more!

G-2800SDX (34 sq. ft.) Call for price!

G-1000SDX (23.5 sq. ft.) Call for price!

G-800S / SDX (17 sq. ft.) .. Call for price!

G-450S (11 sq. ft.) NEW! .. Call for price!

G-5400B Azimuth Elevation . Please Call!

G-500 Elevation Rotor Call for price!

CALL FOR GREAT YAESU ROTOR SAVINGS



FT-530 ... CLOSEOUT SPECIAL!

- Compact 2m and 70cm FM HT
- 82 Memory Channels
- Alpha Numeric Display
- AM receive (110-138 MHz)
- Autodial Memory (10 Channels)
- CTCSS Tone Encode and Decode
- CTCSS Scan (Finds Tone Freq.)
- DTMF Paging
- DTMF Squelch
- Direct Keypad Frequency Entry
- Extended RX (118-174 MHz)
- Built-in VOX
- Supplied with FNB-25 NiCad Battery Pack, Wall Charger, Belt Clip, Rubber Duck Antenna, and Wrist Strap!

\$50 COUPON FOR ADDED SAVINGS!



FT-990 / FT-990DC Call For Price!

FT-990DC- Without AC Supply or Filter.

\$75 COUPON FOR ADDED SAVINGS!



FT-840 Call For Yaesu Special!

- 160-10m XCVR • 100W Output • FM Option
- Compact Size • LCD Display • Much More

\$50 COUPON FOR ADDED SAVINGS!



FT-2200 Please Call For Your Price!

FT-2500 Please Call For Price!

\$20 COUPON FOR ADDED SAVINGS!



FT-51R Call For Price!

FT-51RH, 5 watt model ... Call!

- Tiny 2m and 70cm FM HT
- 120 Memory Channels
- Alpha Numeric Display
- AM receive (110-138 MHz)
- Autodial Memory (10 Channels)
- CTCSS Tone Encode & Decode
- CTCSS Scan (Finds Tone)
- DTMF Paging & Squelch
- Direct Keypad Frequency Entry
- Extended RX (110-180 MHz)
- Extended RX (420-470 MHz)
- Supplied with FNB-31 NiCad Battery, Charger, Belt Clip, Rubber Duck, and Wrist Strap!

NEW-PLEASE CALL FOR PRICE!

CALL
TOLL
FREE

(800) 272-3467

TECH
LINE

(214) 422-7306

FAX
LINE

(214) 881-0776



TEXAS TOWERS

A Division of Texas RF Distributors, Inc. • 1108 Summit Avenue, Suite #4 • Plano, TX 75074 • U.S.A.

WEEKDAYS:
9AM-5PM
SATURDAYS:
9AM-1PM

M/C • VISA
C.O.D.

HUGE YAESU DEALS!